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FINAL REPORT

OF THE

TYPE III MOBILITY VIBRATION PROFILE

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U.S. ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059

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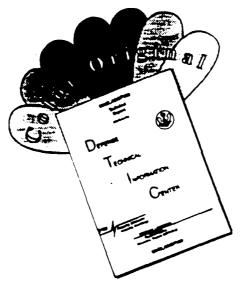
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SECTION 1. EXECUTIVE DIGEST

1.1 SUMMARY

There is an existing void in current test specifications for vibration design and laboratory test schedules. Present standards contain specifications for a common carrier environment, which is representative of operation in commercial vehicles over highways (only), and the composite wheeled vehicle specifications, which represent operation over extreme terrain at worst-case speeds. The proposed series of tests will subject the test items to highway, improved surface, and cross-country terrains, and they are expected to produce results which lie between the existing standards.

A series of seven different mobile shelter/prime mover configurations was subjected to the Type III mobility requirements of MIL-M-8090F (app G, ref 2) in order to gather vibration data. Data were collected using selected courses at the Munson Test Area (MTA) and Perryman Test Area (PTA) at Aberdeen Proving Ground (APG), Maryland.

Test specifications were developed for the shelter input (attachment to prime mover/mobilizer), the walls, and the floor of each shelter combination and master input; wall and floor specifications were developed by combining data from all shelter combinations.

1.2 TEST OBJECTIVE

The test objective was to subject various generic tactical mobile shelters to the Type III mobility requirements of MIL-M-8090F in order to gather vibration data for design and test specifications.

1.3 TESTING AUTHORITY

The U.S. Army Test and Evaluation Command (TECOM) tasked the U.S. Army Aberdeen Test Center (ATC) to accomplish the required test program per Memorandum (ref 1).

1.4 SYSTEM DESCRIPTIONS

Several combinations of prime movers, mobilizers, and shelters were tested. A short description and identification of each item are provided in the following paragraphs.

a. M923A2 5-Ton Cargo Truck. The M923A2 has a cross-country payload capability of 10,000 pounds and highway payload capability of 20,000 pounds. The identification of the truck used for this test was as follows: National Stock Number (NSN) 2320-01-230-0307, Identification (ID) No. 23/06719, serial number (SN) NL111H, contract No. DAAE07-86-C-J111. The Central Tire Inflation System (CTIS) pressure ratings are as follows: Highway - 60 psi, Secondary - 35 psi, Off-highway - 25 psi.

- b. M1097 High-Mobility Multipurpose Wheeled Vehicle (HMMMV) Heavy Variant (HHV). The M1097 has a payload capability of 4400 pounds. The identification of the truck used for this test was as follows: Registration No. NG4980, SN 137920, contract No. DAAE07-80-0-0998.
- c. M1022 Mobilizer/Dolly Set. The M1022 is capable of mobilizing 20-foot containers or shelters with gross weights of 15,000 pounds. The identification of the M1022 used for this test was as follows: SN 0003.
- d. M832 Mobilizer/Dolly Set. The M832 is capable of mobilizing S280 or 12-foot shelters with gross weights of 10,500 pounds. The identification of the M832 used for this test was as follows: NSN 2330-00-221-4939, SN 376, contract No. DAAE07-81-C-5913.
- e. S280 C/G Shelter. The S280 C/G has a payload capability of 7100 pounds and can be transported by 5-ton cargo truck or M832 mobilizer. The shelter tested was equipped with coil spring shock isolators in upgraded skids as an equipment upgrade study to increase payload rating. The identification of the S280 C/G used for this test was as follows: NSN 5411-01-092-0892, SN 0936C, contract No. DAA807-84-C-B102.
- f. S250/G Shelter. The S250/G has a payload capability of 2530 pounds and can be transported on the Commercial Utility Cargo Vehicle (CUCV) or HMMWV with a shelter mounting kit. The identification of the S-250/G used for this test was as follows: NSN 5411-00-489-6076, SN 310L, contract No. DAAB07-78-C-2013.
- g. S787 Shelter. The S787 has an increased cargo area and reduced weight in comparison with the S250, increasing the payload capability to 3300 pounds. The identification of the S787 used for this test was as follows: NSN 5411-01-333-0663, SN 0253, contract No. DAAK01-91-0-0075.
- h. U.S. Navy 20-foot International Standards Organization (ISO) Nonexpandable Shelter. The GMS 1011 shelter is transportable by an M1022 mobilizer or flatbed trailer and has a payload capacity of 15,100 pounds. The identification of the shelter used for this test was as follows: Navy SN PBT050, contract No. N00140-84-C-3251.
- i. S785 20-foot ISO Two-Sided Expandable Shelter. The S785 shelter has a payload capability of 8100 pounds. The identification of the S785 used for this test was as follows: SN 0003, contract No. DAAK60-80-C-0077.
- j. Twenty-foot Shipping Container. The metal shipping container is compatible in size with the 20-foot ISO nonexpandable shelter and has a maximum gross weight rating of 48,600 pounds. The identification of the shipping container used for this test was as follows: ID Code No. CMLU 126015.

1.5 CONCLUSIONS

The schedules developed represent the vibration environment at the input, walls, and floor of the shelter when driven over terrain (or at speeds) which produces a less severe environment than that represented in MIL-STD-810E (ref 3). This is beneficial when designing test equipment to withstand the effects of vibration during transport. The severity of the schedules is controlled by operation on the Belgian Block Course and is a somewhat conservative estimate of that environment (i.e., the schedule root mean square (rms) matches the largest rms measured on each vehicle/shelter series). The schedule power spectral density (PSD) levels have been modified for the purpose of matching measured rms values but have not been time compressed. No attempt has been made to match the data to a specific scenario or develop a test time, but that can be easily accomplished with the existing data.

No attempt was made to configure the shelter interiors to represent a typical application (racks with electronic equipment). Therefore, the wall and floor specifications are not representative of any particular application and may vary from actual user conditions, depending upon the structural effects imparted by equipment installation. The use of a conservative approach to the specification development should provide the material developer with a reasonable estimate of the shelter interior environment.

1.6 RECOMMENDATIONS

It is recommended that these specifications, along with a description of the test environment (test courses and speeds), be published in International Test Operations Procedure (ITOP) 1-2-601 (ref 4), Laboratory Vibration Schedules and North Atlantic Treaty Organization (NATO) Standardization Agreement (STANAG) 4370 (ref 5), Environmental Testing. Inclusion in ITOP 1-2-601 will result in inclusion in MIL-STD-810E.

SECTION 2. SUBTESTS

2.1 WEIGHT AND CENTER OF GRAVITY (CG)

2.1.1 Weight

The weights of each shelter alone and in combination with various prime movers or mobilizers were measured on a platform scale with accuracy of ± 10 pounds. The weights of the individual shelters are outlined in Table 2.1-1. The weights of the shelters in combination with a prime mover or mobilizer are outlined in Table 2.1-2.

TABLE 2.1-1. WEIGHT OF TEST SHELTERS

Shelter Identification	Weight,
S250/G	3,732
S787	3,960
S280 C/G	8,235
Navy ISO Nonexpandable ^a	15,370
S785 ISO Two-Sided Expandable	14,660
ISO Container ^b	14,720

TABLE 2.1-2. WEIGHT OF COMBINATIONS

Combination Identification	Weight,lb
M923 and S280 C/G Shelter	29,420
M1097 HHV and S250 Shelter	9,312
M1097 HHV and S787 Shelter	9,540
M832 Dolly and S280 C/G Shelter	12,055
M1022 Dolly and Navy ISO	
Nonexpandable Shelter	21,180
M1022 Dolly and S785 ISO	
Two-Sided Expandable Shelter	20,020
M1022 Dolly ^b and ISO Container	21,020

^aLoaded to 77 percent of capacity.

^bAn M1022A1 Dolly Set, NSN 2330-01-378-9997, registration No. PL03DN/1210894 S, contract No. DAAE07-93-D-J001, was used in combination with the ISO Container. The ISO Container was loaded to 31-percent capacity.

2.1.2 Center of Gravity (CG)

The CG of each shelter, shelter-prime mover, and shelter-mobilizer combination was measured by the weighing and suspension methods. The results of the shelter CG measurements are outlined in Table 2.1-3. The results of the shelter-prime mover and shelter-mobilizer combinations are outlined in Table 2.1-4.

TABLE 2.1-3. CENTER OF GRAVITY OF TEST SHELTERS

	Axis of Measurement, in.		
Test Shelter	Longitudinal ^a	Vertical ^b	<u>Lateral^c</u>
S250/G	45.5	27.6	ND
\$787	61.5	19.4	1.7 Left
S280 C/G	84.2	32.0	1.9 Left
Navy ISO			
Nonexpandable	120.6	28.1	ND
S785 ISO Two-Sided			
Expandable	120.1	42.5	ND
ISO Container ^d	ND	ND	ND

^aMeasured from the door end of the shelter.

ND = Not determined.

^bMeasured from the ground.

^cMeasured from the longitudinal centerline.

^dThe CG of the ISO Container was not determined as it was part of a system (with the M1022A1 Dolly Set) that was being tested concurrently at APG.

TABLE 2.1-4. CENTER OF GRAVITY OF TEST SHELTERS WITH PRIME MOVERS

	Axis of Measurement, in.		
Combination	Longitudinal ^a	Vertical ^b	Lateralc
M923 5-Ton and S280 C/G	° 79.3	44.3	0.6 Left
M1097 HMMWV and S250	47.0	38.7	0.4 Left
M1097 HMMWV and S787	47.0	38.7	0.2 Left
M832 Dolly and S280 C/G	123.9	43.9	ND
M1022 Dolly and Navy ISO			
Nonexpandable	170.3	48.0	1.2 Left
M1022 Dolly and S785 ISO			,
Two-Sided Expandable	168.2	53.2	ND
M1022A1 Dolly ^d and ISO	62.0	48.0	0.0
Container			

^aMeasured from the rear axle centerline of the prime mover or mobilizer.

ND = Not determined.

^bMeasured from the ground.

^cMeasured from the longitudinal centerline.

^dAn M1022A1 Dolly Set, NSN 2330-01-378-9997, registration No. PL03DN/1210894 S, contract No. DAAE07-93-D-J001, was used in combination with the ISO Container. The weight had purposely been loaded off of the longitudinal centerline.

^eMeasured forward of the trunnion centerline.

2.2 VIBRATION

2.2.1 Objective

The objective of this test was to subject various generic tactical mobile shelters to the Type III mobility requirements of MIL-M-8090F in order to gather vibration data for design and test specifications.

2.2.2 Criterion

None. Data were collected for information only and to establish vibration test schedules.

2.2.3 Test Procedures

This test was conducted on a series of prime movers/mobilizers and shelters as listed in Table 2.2-1. Characteristic photographs are presented in Appendix B, Figures B-1 through B-6.

TABLE 2.2-1. PRIME MOVERS AND SHELTERS

<u>Vehicle</u>	Shelter		
M923 5-Ton Cargo Truck	S280C/G		
M1097 HHV	S250/G		
M1097 HHV	S787		
M832 Dolly Set	S280C/G		
M1022 Dolly Set	20-foot ISO Nonexpandable		
M1022 Dolly Set	20-foot ISO Two-Sided Expandable		
M1022 Dolly Set	20-foot ISO Container		

Each shelter was loaded to its specified gross weight. Shelters were secured to the respective prime mover with standard tie-down or shelter mounting kits. Dolly set air bags were set and maintained at the recommended (by load) pressure.

Each shelter was instrumented with piezoresistive accelerometers oriented to measure acceleration in the orthogonal axes (vertical, transverse, and longitudinal). Specific measurement locations for each test shelter are illustrated in Appendix B, Figures B-7 through B-18, and transducer specifications are presented in Appendix B, Tables B-1 through B-7. An optical noncontact fifth wheel was used to measure vehicle road speed. A digital indicator from the fifth wheel was provided to the driver, and an analog voltage proportional to road speed was part of the data stream.

An on-board pulse code modulation (PCM) data acquisition system was used to acquire the acceleration and road speed data while each vehicle traversed the test courses. All data channels were low-pass filtered at 500 Hz (50 Hz for road speed) and were digitized sequentially at a rate of 2083.333 samples per second. A 12-bit analog to digital converter was used for all data.

Prior to testing, an electrical calibration was performed on all channels. The channels were calibrated by shunting a calibrated resistor across one arm of the accelerometer bridge, producing a voltage output equivalent to a calculated acceleration based on the shunt resistance value and the transducer sensitivity. The calibration was performed at zero and in both the positive and negative directions. Road speed was calibrated by inserting frequencies which were equivalent to three different road speeds. Prior to operation each day, a linear least squares curve fit was performed on the calibration data to determine system linearity and to provide a quality check on the calibration data. Any channels which demonstrated high noise levels, direct current (DC) offsets, or nonlinearities were corrected before testing began.

Each vehicle was tested at the Munson Test Area (MTA) and the Perryman Test Area (PTA) and traversed each of the test courses at the speeds indicated in Table 2.2-2. Data were recorded for approximately 30 seconds on each course at each speed. The vertical microprofile of each course was measured by the ATC profilometer prior to operation by each combination. Test course descriptions are presented in Appendix F.

TABLE 2.2-2. TEST COURSES AND SPEEDS

	Vehicle
	Speed,
Test Course	mph
MTA Gravel	10 and 15
MTA Belgian Block ^a	10 and 15
PTA Paved	45 and 50
PTA Secondary "A"	10 and 15

^aConsidered as three separate courses: south turn, straight section, north turn. Runs were made in the middle of the course and on the left and right sides.

A minimum of five runs at each speed was made on each test course. Various sections of each of the test courses were utilized. At the conclusion of the five maximum speed runs, a coefficient of variation (COV, standard deviation divided by the mean) analysis was performed on the vector rms value for the shelter input channels (taken as a group). If the COV was greater than 0.25, additional data runs (up to a maximum of ten) were made until a value of 0.25 or less was achieved. Details of the data acquisition system and data verification procedures are summarized in Appendixes C and D.

The test speeds and number of runs per test course for most of the schedule development process were as described in Table 2.2-3. Exceptions are listed by vehicle in Table 2.2-4.

TABLE 2.2-3. TEST COURSES, SPEEDS AND NUMBER OF DATA RUNS

Course	Speed, mph	No. of Runs
Munson Gravel	15	5
Perryman Paved	50	5
Secondary "A"	15	5
Belgian Block	15	6

TABLE 2.2-4. EXCEPTIONS TO TEST COURSES, SPEEDS AND NUMBER OF DATA RUNS

Vehicle	Course	Speed, mph	No. of Runs
M923	Secondary "A"	10	5
HMMWV	Munson Gravel	15	7
HMMWV	Belgian Block	15	9
HMMWV	Secondary "A"	15	6
M1097 HHV	Secondary "A"	15	6
M1022 Nonexpandable	Paved	50	6
M1022A1	Belgian Block	15	3
M832	Paved	45	6

2.2.4 Test Findings

For each data run, the time domain instantaneous amplitude levels are summarized by histogramming the data and saving appropriate high-level values in an amplitude distribution table. Amplitude distribution tables from the most severe data run on each shelter combination are presented in Appendix B, Tables B-8 through B-14.

Time domain data are converted to the frequency domain and are saved as PSD functions. Selected functions are then combined as described in paragraph 2.2.5 to form the final specification for each shelter combination. Information relevant to the computation of the PSD functions is presented in Table 2.2-5.

TABLE 2.2-5. POWER SPECTRAL DENSITY FUNCTION COMPUTATION PARAMETERS

Parameter	Value
Sample Rate, Hz	2083.333
Block Size	2048
Frequency Bandwidth, Hz	1.02
Analysis Range, Hz	2 to 500
Windowing	Hanning
Number of Linear Spectral Averages	35
90-Percent Confidence Limit on	+1.12, -1.31
PSD Estimate, dB	

The test course profiles were summarized in the form of wave number spectra (PSD functions of the spatial history). Sample wave number spectra for each test course are presented in Appendix B, Figures B-19 through B-22.

2.2.5 Technical Analysis

Specifications which represent the Type III mobility dynamic environment were developed for each shelter independently, using a modification of the standard technique that is used at ATC. The development process is described in detail in the paragraphs on the following pages.

When computing PSD functions at the Vibration Test Branch, it is common practice to compute the linear average, the standard deviation, and the peak, all as a function of frequency over the length of a test run. The standard deviation represents the variance in the spectral data, as a function of frequency, at a given location on the vehicle due to randomness of the test process. Although the data are stationary, excursions about the mean occur in both the time and frequency domains. The average, average plus one standard deviation, and peak spectra are saved for each channel for each data run processed. For the Type III mobility project, approximately 35 instantaneous spectra, representing time increments of 0.98 second, were averaged for each run. This process can be shown mathematically as:

$$S_{m}(f) = 1/N \{SUM [S_{i}(f)]\}$$

$$i=1$$
[Equation 1]

where:

 $S_m(f)$ = Average PSD value as a function of frequency.

 $S_i(f)$ = Instantaneous PSD value.

N = Number of records (approximately 35) per data run.

$$S_{d}(f) = [1/N \{SUM [S_{i}(f) - S_{m}(f)]^{2}\}]^{1/2}$$
 [Equation 2]
i=1

where:

 $S_d(f)$ = Standard deviation of PSD values as a function of frequency.

$$S_s(f) = S_m(f) + S_d(f)$$
 [Equation 3]

where:

 $S_s(f)$ = Average plus one standard deviation PSD value.

$$S_p(f) = \underset{i=1}{\text{MAX }} [S_i(f)]$$
 [Equation 4]

where:

 $S_p(f)$ = Peak PSD value.

Data from the input locations (four on the trucks, eight on the dolly sets) were used to make a vehicle unique composite spectrum for each axis representing operation over four test courses.

The data from all the locations and all the test runs listed were combined (by axis) using three different techniques to produce representative composite spectra. The first technique was a simple linear average of all average spectra (all channels, all runs) to produce an overall average spectra. If the mean and the median of the distribution are the same, this represents approximately the 50th percentile of the spectral data. The second technique was the "standard" Vibration Test Branch conservative schedule development process, in which the average plus one standard deviation spectra from each channel and each run (from Equation 3) are combined by using the average of these spectra with the addition of one standard deviation. The standard deviation computed during this process represents the spectral variance due to location and test course differences, and is not the same as that computed by Equation 2. Mathematically, this is shown as:

$$S_a(f) = 1/N \{SUM [S_s(f)]\}$$

$$i=1$$
[Equation 5]

where:

 $S_a(f)$ = Average PSD value as a function of frequency.

 $S_s(f)$ = Average plus standard deviation PSD values (from Equation 3).

M = Number of records (data runs and locations).

$$S_e(f) = [1/N \{SUM [S_s(f) - S_a(f)]^2\}]^{1/2}$$
 [Equation 6]

where:

S_e(f) = Standard deviation of PSD values due to variations in test courses and instrumentation locations as a function of frequency.

$$S_f(f) = S_a(f) + S_e(f)$$
 [Equation 7]

where:

 $S_f(f)$ = Average plus one standard deviation PSD value (final schedule levels based on "standard" technique).

The last technique (shown by Equation 4) produced a spectrum which represents the 100th percentile of the spectral data and which resulted from enveloping all of the individual (channel and run) peak spectra.

It is desirable for a vibration schedule to be a conservative estimate of the true environment, within some credible bounds. Merely enveloping the peak spectra provides conservatism but results in an overtest since the test rms level is generally much greater than the highest individual level measured. Using the "standard" technique applies some conservatism but yields realistic rms values. This procedure was used to compute the original estimate for each vehicle in each axis; however, it can produce a final spectrum which is not sufficiently conservative if the value of M (Equation 6) is large, as it was in this case. To ensure that the final spectral estimate is at least as large as the actual measured data, this spectrum was then adjusted (amplified or attenuated) so that its rms value was the same as the largest rms value measured at any location during any data run. The adjustment values for the input locations are presented in Table 2.2-6. Note that these values are applied to the PSD values directly (multipliers) and affect the rms value as the square root of the adjustment values. The shelter input specifications are presented in Appendix B, Tables B-15 through B-38 and are shown graphically in Appendix B, Figures B-23 through B-46.

TABLE 2.2-6. SHELTER INPUT SPECIFICATION ADJUSTMENT VALUES

	Axis			
Vehicle	<u>Vertical</u>	Transverse	Longitudinal	
M923/S280	1.63	1.27	0.98	
HMMWV/S250	0.59	0.87	0.83	
M1097 HHV/M787	1.11	0.84	0.48	
M1022/Expandable	1.01	1.09	0.54	
M1022/Nonexpandable	1.00	2.37	0.69	
M1022A1/Generic	1.69	2.60	1.26	
M832/S280	1.02	0.72	0.89	

A similar technique was used to describe the floor and wall environment of the individual shelters and to develop a master spectrum (all shelter combinations) for the floor and wall environments. Floor data were not available for M1022A1/Generic shelter combination, and wall data were unavailable for all dolly set configurations. The locations used to develop the spectra for each shelter are presented in Tables 2.2-7 and 2.2-8, and the schedule adjustment values are presented in Tables 2.2-9 and 2.2-10. Floor and wall specifications are presented in Appendix B, Tables B-39 through B-71 and are shown graphically in Appendix B, Figures B-47 through B-79.

TABLE 2.2-7. SHELTER FLOOR SPECIFICATION MEASUREMENT LOCATIONS

Vehicle	Locations
M923/S280	Curbside aft floor Roadside mid floor Curbside forward floor
HMMWV/S250	Aft floor Mid floor Forward floor
M1097 HHV/M787	Curbside floor Forward floor Roadside floor Forward rack base Generator compartment floor
M1022/Expandable	Forward floor Aft floor
M1022/Nonexpandable	Forward floor Aft floor
M832/S280	Forward floor Aft floor

TABLE 2.2-8. SHELTER WALL SPECIFICATION MEASUREMENT LOCATIONS

Vehicle	Locations
M923/S280	Forward wall Roadside wall Curbside wall
HMMWV/S250	Forward wall Roadside wall Curbside wall
M1097 HHV/M787	Roadside wall Curbside wall

TABLE 2.2-9. SHELTER FLOOR SPECIFICATION ADJUSTMENT VALUES

		Axis	
Vehicle	<u>Vertical</u>	<u>Transverse</u>	Longitudinal
M923/S280	1.22	1.14	0.88
HMMWV/S250	0.92	1.25	0.48
M1097 HHV/M787	1.82	2.15	0.77
M1022/Expandable	0.92	1.33	0.87
M1022/Nonexpandable	0.92	1.62	0.33
M832/S280	0.83	0.69	0.94

TABLE 2.2-10. SHELTER WALL SPECIFICATION ADJUSTMENT VALUES

		Axis	
Vehicle	<u>Vertical</u>	<u>Transverse</u>	Longitudinal
M923/S280	1.45	1.10	1.11
HMMWV/S250	1.44	1.61	0.56
M1097 HHV/ M787	1.64	1.81	0.70

Master input, floor, and wall specifications were developed by enveloping the applicable (input, floor, or wall) "standard" master spectra for all shelters. The final schedule was then adjusted (as described previously) so that the master specification rms value matched that of the largest field measured rms value for the appropriate location. Master specifications are presented in Appendix B, Tables B-36 through B-38 (input), Tables B-57 through B-59 (floor), and Tables B-69 through B-71 (walls) and are shown graphically in Appendix B, Figures B-44 through B-46 (input), Figures B-65 through B-67 (floor), and Figures B-77 through B-79 (walls). The schedule adjustment values are presented in Table 2.2-11.

TABLE 2.2-11. MASTER SPECIFICATION ADJUSTMENT VALUES

		Axis	
<u>Vehicle</u>	Vertical	<u>Transverse</u>	Longitudinal
Master Input	1.00	1.00	1.00
Master Floor	0.63	0.69	0.30
Master Walls	1.23	0.96	0.70

The schedules developed represent the vibration environment at the input, walls, and floor of the shelter when driven over terrain (or at speeds) which produces a less severe environment than that represented in MIL-STD-810D/E. The severity of the schedules is controlled by operation on the Belgian Block Course and is a somewhat conservative estimate of that environment (i.e., the schedule rms matches the largest rms measured on each vehicle/shelter series). The schedule PSD levels have been modified for the purpose of matching measured rms values but have not been time compressed. No attempt has been made to match the data to a specific scenario or develop a test time, but that can be easily accomplished with the existing data.

No attempt was made to configure the shelter interiors to represent a typical application (racks with electronic equipment). Therefore, the wall and floor specifications are not representative of any particular application and may vary from actual user conditions, depending upon the structural effects imparted by equipment installation. The use of a conservative approach to the specification development should provide the material developer with a reasonable estimate of the shelter interior environment.

SECTION 3. APPENDIXES

APPENDIX A. TEST CRITERIA

Not used.

APPENDIX B. TEST DATA

Table No.	Description
B-1 thru B-7	Transducer specifications.
B-8 thru B-14	Amplitude distribution data.
B-15 thru B-71	Specification breakpoint values.
Figure No.	Description
B-1 thru B-6	Characteristic photographs.
B-7 thru B-18	General views of instrumentation locations.
B-19 thru B-22	Test course wave number spectra.
B-23 thru B-79	Specification plots.

TABLE B-1. TRANSDUCER LOCATIONS AND SPECIFICATIONS S250 SHELTER ON M1037 HMMWV

(+/- G's) RESOLUTION		0.0086	0.0082	0.0000	0.0088	0.0091	0.0089	0.0087	0.0090	0.0083	0.0100	0.0101	0.0091	0.0089	0.0084	0.0095	0.0081	0.0092	0.0079	0.0078	0.0093	0.0098	0.0097	0.0087	0.0103	0.0087	0.0083	0.0079	0.0075	0.0098	0.0079	0.0176
(+/- G's) RANGE		17.5	16.8	18.5	18.0	18.6	18.2	17.9	18.4	17.1	20.4	20.7	18.7	18.3	17.2	19.4	16.6	18.9	16.1	15.9	19.0	20.0	19.8	17.9	21.1	17.8	17.0	16.2	15.3	20.0	16.1	64.8
FREQUENCY RANGE (HZ)		0 - 500	=	:	=	=	:	:				:	:	=	=	=	=	=	:	=	=	=	:	=		ŧ	£		:			0 - 20
DUE FOR CAL	ļ	17MAR95	17MAR95	31JUL95	23FEB95	31JUL95	30APR95	16MAR95	31JUL95	3070195	30APR95	17MAR95	3070195	17MAR95	04MAY95	17MAR95	04MAY95	30-Apr-95	04MAY95	3070L95	30APR95	16MAR95	17MAR95	16MAR95	12MAY95	13-Apr-95	3-Aug-95	3-Aug-95	11-Jun-95	30-Apr-95	3-Aug-95	•
SERIAL NO.		A15J	A26G	A41A	A42A	A43P	A46A	A46D	A59P	A60P	A63F	A64F	A68F	A68G	A70L	A71F	A75F	A81D	A82L	A86C	A86D	A89F	A94D	A94F	A99D	BL30	9633	CE25	CE79	CW98	NP85	•
MODEL		2262C-25		:		ī	:	:	:	ī	=	:	:	:	:	:	:	=	:	:	:	=	z.	=	:	£	.	:	:	:	:	•
MANUFACTURER		ENDEVCO	=	Ξ	=	I	Į	z	ε	z	r	r	F	τ	z			=	=	=	=	=	=	=		•	•	r			=	DATRON
AXIS		VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	•									
DESCRIPTION		CS FWD CORNER	:	:	CS AFT CORNER	z	:	RS FWD CORNER		:	RS AFT CORNER			CS AFT FLOOR		:	RS MID FLOOR			CS FWD FLOOR	:	t	FWD WALL		:	RS SIDE WALL	:		CS SIDE WALL			ROAD SPEED
CHANNEL		-	2	က	4	5	9	7	8	o	10	1	12	13	14	15	16	17	18	19	20	21	23	23	24	52	56	27	28	53	30	34

NOTES: UNITS FOR RANGE AND RESOLUTION (CHANNEL 31) ARE MPH.
DATA FROM INDIVIDUAL CAL; CALIBRATION WAS PERFORMED DAILY.

TABLE B-2. TRANSDUCER LOCATIONS AND SPECIFICATIONS S280 SHELTER ON M923A2 5-TON TRUCK

(+/- G's) RESOLUTION	88000	0.0000	0.000	0.0089	0.0093	0600'0	0.0088	0.0090	0.0084	0.0100	0.0101	0.0091	0.0090	0,0085	0.0095	0.0082	0.0093	0.0080	0.0079	0.0088	0.0105	0.0098	0.0088	0.0104	0.0087	0.0083	0.0079	0.0078	0.0103	0.0082	0.0177
(+/- G's) RANGE	180	17.3	0.85	18.2	19.0	18.4	17.9	18.5	17.1	20.4	20.7	18.7	18.4	17.4	19.5	16.7	19.1	16.3	16.1	18.1	21.6	20.0	18.0	21.3	17.8	17.0	16.2	16.0	21.1	16.9	65.4
FREQUENCY RANGE (HZ)	0-500		•	•	•	-	:		ŧ	=	=		=	r	=	=	*	=	=				=		r	2			=		0 - 50
DUE FOR CAL	17MAR95	17MAR95	31JUL95	23FEB95	31JUL95	30APR95	16MAR95	31JUL95	3070L95	30APR95	17MAR95	3070L95	17MAR95	04MAY95	17MAR95	04MAY95	23FEB95	04MAY95	30JUL95	30APR95	16MAR95	17MAR95	16MAR95	12MAY95	13-Apr-95	3-Aug-95	3-Aug-95	11-Jun-95	30-Apr-95	3-Aug-95	•
SERIAL NO.	A15J	A26G	A41A	A42A	A43P	A46A	A46D	A59P	A60P	A63F	A64F		A68G	A70L	A71F	A75F	A52D	A82L	A86C	A86D	A89F	A94D	A94F	A99D	BL30	96DD	CE25	CE79	CW98	NP85	
MODEL	2262C-25			t	:	:		:	ŧ	:	=	:	:	:	:	:		:	:		:	:		:	:	2	Ξ			:	,
MANUFACTURER	ENDEVCO	Ξ	r	±	=	=	z.	z.	2	=	=	F	=	=	=	=	=	=	=	=	=	=	£	=	=	ŧ	=	=	=	=	DATRON
AXIS	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	
DESCRIPTION	CS FWD CORNER	:	r	CS AFT CORNER	5 :	: !! !!	RS FWD CORNER	: :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KS AFI CORNER	: :		CS AF I FLOOR	: :	: :	RS MID FLOOR	: :	= !!	CS FWD FLOOR	: :	: !	FWD WALL	: :		KS SIDE WALL		: !	CS SIDE WALL	: :	: !	ROAD SPEED
CHANNEL	-	7	ო '	4 1	n (0 1	~ σ	0 0	ω ξ	5 ‡	=	7 5	2 7	4 4	<u>o</u> (ē ţ	7.	Σ ,	19	₹	7 S	7 8	5 5	† 10	ç %	2 7	7 6	9 8	8 8	90 20	

NOTES: UNITS FOR RANGE AND RESOLUTION (CHANNEL 31) ARE MPH.
DATA FROM INDIVIDUAL CAL; CALIBRATION WAS PERFORMED DAILY.

TABLE B-3. TRANSDUCER LOCATIONS AND SPECIFICATIONS 20-FOOT EXPANDABLE SHELTER ON M1022 DOLLY SET

(+/- G's) RESOLUTION		0.0090	0.0086	0.0095	0.0090	0.0094	0.0091	0.0000	0.0093	0.0086	0.0105	0.0107	9600:0	0.0094	0.0090	0.0100	0.0085	0.0098	0.0084	0.0080	9600.0	0.0100	0.0100	0.0090	0.0107	0.0092	0.0087	0.0084	0.0083	0.0109	0.0087	0.0179
(+/- G's) RANGE		18.4	17.6	19.4	18.4	19.2	18.6	18.4	19.0	17.7	21.5	21.8	19.7	19.3	18.4	20.5	17.4	20.0	17.2	16.4	19.6	20.5	20.5	18.4	21.9	18.8	17.9	17.2	16.9	22.3	17.8	65.5
FREQUENCY RANGE (HZ)		0 - 200	=	•	=	=	•	:	•										:			:	:	=		*					•	0-20
DUE FOR CAL	1	17MAR95	17MAR95	31JUL95	23FEB95	31JUL95	30APR95	16MAR95	31JUL95	3070195	30APR95	17MAR95	3070195	17MAR95	04MAY95	17MAR95	04MAY95	23FEB95	04MAY95	307NF35	30APR95	16MAR95	17MAR95	16MAR95	12MAY95	13-Apr-95	3-Aug-95	3-Aug-95	11-Jun-95	30-Apr-95	3-Aug-95	•
SERIAL NO.	1	A15J	A26G	A41A	A42A	A43P	A46A	A46D	A59P	A60P	A63F	A64F	A68F	A68G	A70L	A71F	A75F	A52D	A82L	A86C	A86D	A89F	A94D	A94F	A99D	BL30	96 2 2	CE25	CE79	CW98	NP85	•
MODEL		2262C-25	:	:	:	z		z	:	*				:		:	:	•	:	r	:	•	:	±	=	:	:	2		ı	2	
MANUFACTURER		ENDEVCO	Ε	=	z	ŕ	=	=	•				•	=		ī	=	=	z	=	=	2	=			=	=		=	=	T	DATRON
AXIS		VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG										
DESCRIPTION		CS FWD TOP CORNER	:	:	CS AFT TOP CORNER	:		RS AFT TOP CORNER			RS FWD TOP CORNER	ī	=	RS FWD BOTTOM CONNER			RS AFT BOTTOM CORNER	•	ī	CS AFT BOTTOM CORNER	=	z	CS FWD BOTTOM CORNER	=	•	FWD FLOOR			AFT FLOOR			ROAD SPEED
CHANNEL		-	2	ო	4		9	7	80	6	5	11	12	13	4	15	16	17	18	19	20	24	22	23	25	52	56	27	78	53	30	34

NOTES: UNITS FOR RANGE AND RESOLUTION (CHANNEL 31) ARE MPH. DATA FROM INDIVIDUAL CAL; CALIBRATION WAS PERFORMED DAILY.

TABLE B-4. TRANSDUCER LOCATIONS AND SPECIFICATIONS 20-FOOT GENERIC SHELTER ON M1022A1 DOLLY SET

(+/- G'S) RESOLUTION		0,0050	0.0000	0.0045	0.0049	0.0050	0.0044	0.0050	0.0049	0.0048	0.0046	0.0046	0.0042	0.005	0.0050	0.0045	0.0049	0.0050	0.0047	0.0057	0.0044	0.0047	0.0056	0.0045	0.0040	0.0177
(+/- G's) RANGE R		10.2	6.6	9.5	10.1	10.3	0.6	10.3	10.1	8.6	6	. G	98	10.4	10.2	2.6	o .	10.2	96	11.6	9.1	9.6	11.4	26	10.0	65.2
FREQUENCY RANGE (HZ)		0 - 500		:			:		*							ı		z		•			r			0 - 20
DUE FOR CAL		17MAR95	17MAR95	31JUL95	23FEB95	31JUL95	30APR95	16MAR95	· 31JUL95	30JUL95	30APR95	17MAR95	3010195	17MAR95	04MAY95	17MAR95	04MAY95	23FEB95	04MAY95	3010195	30APR95	16MAR95	17MAR95	16MAR95	12MAY95	•
SERIAL NO.	İ	A15J	A26G	A41A	A42A	A43P	A46A	A46D	A59P	A60P	A63F	A64F	A68F	A68G	A70L	A71F	A75F	A52D	A82L	A86C	A86D	A89F	A94D	A94F	A99D	
MODEL		2262C-25	:	r	E		:		:						:				•	:	•	Í	r	ı	:	•
MANUFACTURER		ENDEVCO	=	=	=	=	=	=	=	=	=	=	=		=	=	=	=	±	F .	=	=	:	:	ŧ	DATRON
AXIS		VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	•
DESCRIPTION		CS FWD TOP CORNER	= :	±	CS AFT TOP CORNER	= :	=	RS AFT TOP CORNER	· ;	:	RS FWD TOP CORNER	:	:	RS FWD BOTTOM CORNER	:	*	RS AFT BOTTOM CORNER	•	: 	CS AFT BOTTOM CORNER	Ξ ;		CS FWD BOTTOM CORNER	•	=	ROAD SPEED
CHANNEL		- (7	י מי	4 ı	Ω (n 02	~ 0	x 0 c	D (<u>0</u> :	. ;	77	13	4 ;	5	9 !)	2 (19	8 8	77 6	7 7	S	24	. k

UNITS FOR RANGE AND RESOLUTION (CHANNEL 25) ARE MPH.

DATA FROM ONE INDIVIDUAL CALIBRATION; CALIBRATION WAS PERFORMED DAILY.

TABLE B-5. TRANSDUCER LOCATIONS AND SPECIFICATIONS 20-FOOT NONEXPANDABLE SHELTER ON M1022 DOLLY SET

CHANNEL	DESCRIPTION	AXIS	MANUFACTURER	MODEL	SERIAL NO.	DUE FOR CAL	FREQUENCY RANGE (HZ)	(+/- G's) RANGE	(+/- G'S) RESOLUTION
					1				
-	CS FWD TOP CORNER	VERT	ENDEVCO	2262C-25	A15J	17MAR95	0 - 200	11.4	0.0056
7	=	TRAN	=		A26G	17MAR95	•	11.0	0.0054
ю		LONG	=	:	A41A	31JUL95		10.3	0.0050
4	CS AFT TOP CORNER	VERT	r		A42A	23FEB95	=	11.0	0.0054
2		TRAN	*	=	A43P	31JUL95		11.5	0.0056
ဖ		LONG	=	:	A46A	30APR95		10.0	0.0049
7	RS AFT TOP CORNER	VERT	=	:	A46D	16MAR95		11.3	0.0055
80	=	TRAN	=	=	A59P	31JUL95	=	11.2	0.0055
6	=	LONG	=		A60P	30JUL95		10.8	0.0053
10	RS FWD TOP CORNER	VERT	*	:	A63F	30APR95	=	10.3	0.0050
11		TRAN			A64F	17MAR95		10.4	0.0051
12		LONG	=	=	A68F	3070195	=	9.4	0.0046
13	RS FWD BOTTOM CORNER	VERT	=		A68G	17MAR95	•	11.2	0.0055
4	=	TRAN	=	=	A70L	04MAY95		11.1	0.0054
15	•	LONG	=		A71F	17MAR95		6.6	0.0048
16	RS AFT BOTTOM CORNER	VERT		:	A75F	04MAY95	=	10.6	0.0052
17	.	TRAN	=	:	A52D	23FEB95	=	9.6	0.0047
18		LONG	=	:	A82L	04MAY95		10.3	0.0050
19	CS AFT BOTTOM CORNER	VERT	=	:	AB6C	307NF35	•	6.6	0.0048
20		TRAN	=		A86D	30APR95	:	9.7	0.0048
21	=	LONG	=		A89F	16MAR95		10.2	0.0050
22	CS FWD BOTTOM CORNER	VERT		:	A94D	17MAR95	ŧ	10.3	0.0050
23		TRAN			A94F	16MAR95		o. o	0.0048
24		LONG	=		A99D	12MAY95		10.9	0.0053
52	FWD FLOOR	VERT	•		BL30	13-Apr-95	ı	10.9	0.0053
5 6		TRAN		:	9633	3-Aug-95		10.2	0.0050
27	*	LONG			CE25	3-Aug-95		10.0	0.0049
28	AFT FLOOR	VERT	•		CE79	11-Jun-95		8.0	0.0048
58	=	TRAN		•	CW98	30-Apr-95		10.8	0.0053
30	*	LONG	=	•	NP85	3-Aug-95		10.3	0.0051
31	ROAD SPEED	•	DATRON			•	0 - 20	65.2	0.0177

NOTES: UNITS FOR RANGE AND RESOLUTION (CHANNEL 31) ARE MPH. DATA FROM INDIVIDUAL CAL; CALIBRATION WAS PERFORMED DAILY.

TABLE B-6. TRANSDUCER LOCATIONS AND SPECIFICATIONS S280 SHELTER ON M832 DOLLY SET

FREQUENCY (+/- G's) (+/- G's) RANGE (HZ) RANGE RESOLUTION		- 500 9.9 0.0049	. 9.8 0.0048					10.5 0.0052										8.9 0.0044			9.0 0.0044				16.6 0.0081						
FREGI		0-0	=	=	=	=		£	=	=	£	•	-	-	•	=	•	=	2	•	=	=	•	•	•	=	*	E	•		•
DUE FOR CAL		17-Mar-95	17-Mar-95	31-Jul-95	4-May-95	31-Jul-95	30-Apr-95	16-Mar-95	4-May-95	11-Jun-95	30-Apr-95	17-Mar-95	30-Jul-95	17-Mar-95	4-May-95	17-Mar-95	4-May-95	4-May-95	4-May-95	30-Jul-95	30-Apr-95	16-Mar-95	17-Mar-95	16-Mar-95	10-Dec-95	13-Apr-95	3-Aug-95	3-Aug-95	11-Jun-95		30-Apr-95
SERIAL NO.		A15J	A26G	A41A	A25A	A43P	A46A	A46D	A82F	CE60	A63F	A64F	A68F	A68G	A70L	A71F	A75F	NJ94	A82L	A86C	AB6D	A89F	A94D	A94F	CE37	BL30	96)	CE25	CE79		CW98
MODEL		2262C-25				•			:					:			:				•		:	=	ŧ	:		z			
MANUFACTURER		ENDEVCO	=		=	=	=		=	z	=	=		=	=	=	=	z	=		=	=	=	=	=	=	=	=	=	=	
AXIS		VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	HOAM	
DESCRIPTION		CS FWD TOP BRKT	=	ε	CS AFT TOP BRKT	= .	τ	RS AFT TOP BRKT	=	= . !	RS FWD TOP BRKT	:	. =	RS FWD BOT BRKT	:	=	RS AFT BOT BRKT	:	=	CS AFT BOT BRKT	:	= !!	CS FWD BOT BRKT	•	=	FWD FLOOR	= :	*	AFT FLOOR	=	
CHANNEL		-	7	ო	ব :	c 2	9	۰,	∞ ⋅	တ (0 :		12	13	4	2	16	17	2	6	ର :	5 7	21 2	g ;	74	ខ	8 I	27	28	Ş	87

NOTES: UNITS FOR RANGE AND RESOLUTION (CHANNEL 31) ARE MPH.
DATA FROM INDIVIDUAL CAL; CALIBRATION WAS PERFORMED DAILY.

TABLE B-7. TRANSDUCER LOCATIONS AND SPECIFICATIONS SICPS SHELTER ON MI097 HEAVY HMMWV

(+/- G's) (+/- G's) RANGE RESOLUTION	9.7 0.0048	11.0 0.0054			9.7 0.0047	8.8 0.0043	8.9 0.0044	9.6 0.0047		9.1 0.0045	9.3 0.0046	8.4 0.0041		9.5 0.0047	8.2 0.0040					8.2 0.0040				8.0 0.0039		9.6 0.0047		9.1 0.0044	8.7 0.0042	9.5 0.0047	9.8 0.0048	65.1 0.0177
FREQUENCY RANGE (HZ)	0 - 200	•	=	=	=	•		=	-	•								:	:													0-20
DUE FOR CAL	3-Aug-95	21-Mar-96	31-Jul-95	4-May-95	31-Jul-95	11-Aug-95	17-Jun-95	4-May-95	3-Aug-95	11-Aug-95	3-Aug-95	30-Jul-95	4-Aug-95	4-May-95	30-Sep-95	4-May-95	4-May-95	4-May-95	30-Jul-95	3-Aug-95	21-Mar-96	4-May-95	21-Mar-96	10-Dec-95	15-May-95	3-Aug-95	3-Aug-95	11-Jun-95	21-Mar-96	3-Aug-95	21-Mar-96	
SERIAL NO.	CE35	A51F	A41A	A25A	A43P	CE94	CY71	A82F	CN93	CW93	NN62	A68F	LA73	A70L	CB32	A75F	NJ94	A82L	ABEC	TY86	A62D	A33A	A01E	CE37	CM27	96 00	CE25	CE79	A67F	NP85	A83F	
MODEL	2262C-25	:	:				2		=	:	:	;		•	:		•	•	:		:	:	:		•		=	:	=		:	•
MANUFACTURER	ENDEVCO	-		=	=	z		•	=	I	•	ı	=		=	=	=	z		=			=	=		=	=	=	=	•	=	NATRON
AXIS	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	TRAN	LONG	VERT	
DESCRIPTION	CS FLOOR			FWD FLOOR	:	:	RS FLOOR		:	RS WALL	£	£	FWD RACK BASE			CS WALL	:	t	CS FWD MOUNT	:	:	GEN COMP FLOOR	ī	ı	CS AFT CORNER	=	ż	RS AFT CORNER	1	:	RS AFT HMMWV	O A D COCED
CHANNEL	-	2		4	· C	ဖ		œ	ത	10	1	12	13	4	15	16	17	18	19	50	21	22	23	24	52	56	27	28	28	30	ક	33

NOTES: UNITS FOR RANGE AND RESOLUTION (CHANNEL 31) ARE MPH. DATA FROM INDIVIDUAL CAL; CALIBRATION WAS PERFORMED DAILY.

TABLE B-8. AMPLITUDE DISTRIBUTION

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Thu Oct 27 09:32:29 1994

AMPLITUDE DISTRIBUTION PROGRAM (AMDST)
REV P 21JUN94

Type III Mobility (hmmwv) RUN 28 HMMWV/S250 Bel Blk a 15 mph left

DESCRIPTION	RMS	+PEAK	-PEAK	+99.9%	-99.9%	+99%	-99%	+90%	-90%
V CS FWD CORNER	0.23	0.86	-1.00	0.72	-0.72	0.58	-0.58	0.31	-0.31
T CS FWD CORNER	0.13	0.66	-0,46	0.46	-0.40	0.26	-0.33	0.13	-0.20
L CS FWD CORNER	0.11	0.49	-0.81	0.42	-0.45	0.28	-0.30	0.13	-0.16
V CS AFT CORNER	0.29	1.18	-1.33	0.97	-1.05	0.70	-0.70	0.35	-0.35
T CS AFT CORNER	0.19	0.97	-0.77	0.61	-0.62	0.46	-0.48	0.25	-0.26
L CS AFT CORNER	0.09	0.46	-0.67	0.32	-0.39	0.25	-0.25	0.11	-0.10
V RS FWD CORNER	0.20	0.88	-0.83	0.68	-0.62	0.54	-0.49	0.27	-0.28
T RS FWD CORNER	0.13	0.68	-0.51	0.47	-0.44	0.33	-0.30	0.12	-0.16
L RS FWD CORNER	0.08	0.40	-0.38	0.27	-0.32	0.20	-0.25	0.07	-0.12
V RS AFT CORNER	0.25	0.99	-1.52	0.83	-1.05	0.68	-0.66	0.28	-0.27
T RS AFT CORNER	0.17	0.83	-0.77	0.59	-0.61	0.43	-0.45	0.19	-0.21
L RS AFT CORNER	0.08	0.37	-0.43	0.29	-0.28	0.22	-0.21	0.08	-0.07
V AFT FLOOR	0.25	1.20	-1.55	0.92	-0.98	0.63	-0.63	0.28	-0.28
T AFT FLOOR	0.16	0.77	-0.63	0.50	-0.56	0.37	-0.43	0.17	-0.23
L AFT FLOOR	0.08	0.68	-0.81	0.38	-0.44	0.23	-0.21	0.08	-0.07
V MID FLOOR	0.18	0.71	-0.75	0.65	-0.63	0.46	-0.43	0.20	-0.24
T MID FLOOR	0.11	0.35	-0.44	0.28	-0.37	0.21	-0.23	0.14	-0.15
L MID FLOOR	0.06	0.40	-0.35	0.21	-0.29	0.15	-0.16	0.09	-0.10
V FWD FLOOR	0.18	0.87	-0.78	0.63	-0.59	0.45	-0.47	0.20	-0.23
T FWD FLOOR	0.13	0.67	-0.50	0.45	-0.42	0.31	-0.28	0.16	-0.13
L FWD FLOOR	0.06	0.40	-0.44	0.25	-0.29	0.17	-0.14	0.09	-0.06
V FWD WALL	0.19	0.83	-0.84	0.60	-0.61	0.45	-0.46	0.22	-0.23
T FWD WALL	0.23	0.93	-0.86	0.79	-0.65	0.52	-0.51	0.31	-0.31
L FWD WALL	0.24	1.29	-1.38	0.88	-0.98	0.56	-0.65	0.32	-0.33
V RS SIDE WALL	0.21	0.86	-0.80	0.72	-0.67	0.51	-0.53	0.23	-0.25
T RS SIDE WALL	0.26	0.91	-0.87	0.71	-0.67	0.58	-0.61	0.32	-0.34
L RS SIDE WALL	0.19	0.81	-1.27	0.68	-0.70	0.43	-0.51	0.24	-0.26
V CS SIDE WALL	0.28	1.06	-1.12	0.93	-0.94	0.68	-0.62	0.37	-0.37
T CS SIDE WALL	0.26	0.96	-1.01	0.79	-0.77	0.55	-0.60	0.30	-0.36
L CS SIDE WALL	0.19	0.98	-1.12	0.72	-0.85	0.46	-0.46	0.26	-0.20
	MEAN	STD DEV	MAX	MIN	+90%	-90%			
VEHICLE SPEED	14.86	0.45	16.14	13.60	15.39	14.16			

TABLE B-9. AMPLITUDE DISTRIBUTION

May 28 08:56 1996 run074.amd Page 1

Tue Nov 15 14:35:45 1994

AMPLITUDE DISTRIBUTION PROGRAM (AMDST)
REV R 07NOV94

Type III Mobility Study

RUN 74: M923/S280, Bel Block a 15 mph (CCW, Left)

DESCRIPTION	RMS	+PEAK	-PEAK	+99.9%	-99.9%	+99%	-99%	+90%	-90%
(V) CS FWD CORNER	0.42	1.62	-1.43	1.28	-1.23	1.02	-0.99	0.54	-0.53
(T) CS FWD CORNER	0.26	1.50	-1.16	0.89	-0.90	0.64	-0.65	0.33	-0.32
(L) CS FWD CORNER	0.18	0.87	-0.94	0.62	-0.62	0.44	-0.44	0.22	-0.23
(V) CS AFT CORNER	0.49	2.34	-1.78	1.82	-1.56	1.29	-1.24	0.60	-0.60
(T) CS AFT CORNER	0.31	1.24	-1.42	1.04	-1.10	0.75	-0.77	0.39	-0.39
(L) CS AFT CORNER	0.18	0.79	-0.87	0.63	-0.57	0.43	-0.41	0.22	-0.22
(V) RS FWD CORNER	0.43	1.71	-1.58	1.47	-1.23	1.05	-0.99	0.55	-0.55
(T) RS FWD CORNER	0.26	1.54	-1.19	0.93	-0.91	0.66	-0.66	0.33	-0.33
(L) RS FWD CORNER	0.17	0.71	-0.70	0.55	-0.55	0.41	-0.40	0.21	-0.21
(V) RS AFT CORNER	0.57	2.47	-2.04	2.06	-1.86	1.51	-1.40	0.71	-0.69
(T) RS AFT CORNER	0.29	1.22	-1.32	1.00	-1.00	0.70	-0.71	0.36	-0.37
(L) RS AFT CORNER	0.18	0.78	-0.71	0.60	-0.58	0.44	-0.44	0.22	-0.23
(V) CS AFT FLOOR	0.46	3.08	-1.79	1.89	-1.51	1.24	-1.14	0.57	-0.57
(T) CS AFT FLOOR	0.25	1.06	-1.32	0.86	-0.86	0.61	-0.61	0.31	-0.31
(L) CS AFT FLOOR	0.13	0.68	-0.59	0.45	-0.42	0.32	-0.31	0.18	-0.16
(V) RS MID FLOOR	0.37	2.46	-1.56	1.47	-1.19	1.00	-0.88	0.46	-0.45
(T) RS MID FLOOR	0.20	1.71	-0.95	0.77	-0.68	0.50	-0.50	0.24	-0.25
(L) RS MID FLOOR	0.13	0.63	-0.58	0.44	-0.41	0.32	-0.31	0.16	-0.17
(V) CS FWD FLOOR	0.37	1.57	-1.23	1.16	-1.08	0.90	-0.88	0.47	-0.48
(T) CS FWD FLOOR	0.23	1.33	-1.02	0.80	-0.80	0.57	-0.58	0.28	-0.28
(L) CS FWD FLOOR	0.15	0.79	-0.75	0.50	-0.50	0.36	-0.34	0.19	-0.17
(V) FWD WALL	0.38	1.63	-1.24	1.23	-1.09	0.92	-0.90	0.49	-0.48
(T) FWD WALL	0.31	1.42	-1.22	0.94	-1.03	0.73	-0.78	0.39	-0.38
(L) FWD WALL	0.40	1.68	-1.74	1.34	-1.42	0.94	-0.98	0.51	-0.49
(V) RS SIDE WALL	0.47	2.06	-1.76	1.81	-1.57	1.27	-1.11	0.59	-0.57
(T) RS SIDE WALL	0.43	2.01	-1.86	1.46	-1.42	1.02	-1.05	0.54	-0.53
(L) RS SIDE WALL	0.28	1.22	-1.19	0.93	-0.99	0.69	-0.74	0.35	-0.36
(V) CS SIDE WALL	0.35	1.76	-1.22	1.36	-1.02	0.93	-0.82	0.45	-0,44
(T) CS SIDE WALL	0.41	1.70	-1.60	1.40	-1.36	0.98	-1.02	0.50	-0.54
(L) CS SIDE WALL	0.30	1.34	-1.05	1.03	-0.93	0.76	-0.74	0.36	-0.37
	MEAN	STD DEV	MAX	MIN	+90%	-90%			
VEHICLE SPEED	11.11	2.28	18.33	0.69	14.07	8.37			

TABLE B-10. AMPLITUDE DISTRIBUTION

May 28 08:59 1996 run110.amd Page 1

Tue Dec 6 16:34:52 1994

AMPLITUDE DISTRIBUTION PROGRAM (AMDST)
REV R 07NOV94

Type III Mobility Study

RUN 110: M1022/EXPAND, Bel Block - 15 mph (CCW, Rt)

DESCRIPTION	RMS	+PEAK	-PEAK	+99.9%	-99.9%	+99%	-99%	+90%	-90%
(V) CS FWD TOP CORNER	0.30	1.26	-1.13	1.04	-0.93	0.80	-0.66	0.38	-0.37
(T) CS FWD TOP CORNER	0.27	1.25	-1.27	0.87	-0.86	0.64	-0.65	0.33	-0.34
(L) CS FWD TOP CORNER	0.25	3.36	-2.29	1.21	-1.02	0.67	-0.61	0.29	-0.30
(V) CS AFT TOP CORNER	0.34	2.02	-3.91	1.16	-1.38	0.78	-0.88	0.43	-0.43
(T) CS AFT TOP CORNER	0.32	2.46	-2.78	0.90	-1.04	0.72	-0.75	0.40	-0.39
(L) CS AFT TOP CORNER	0.23	3.87	-3.91	1.04	-0.87	0.61	-0.54	0.26	-0.26
(V) RS AFT TOP CORNER	0.32	1.59	-2.46	1.19	-1.15	0.76	-0.81	0.39	-0.41
(T) RS AFT TOP CORNER	0.29	1.43	-1.43	0.84	-0.94	0.66	-0.69	0.37	-0.36
(L) RS AFT TOP CORNER	0.23	1.90	-2.39	0.89	-0.87	0.59	-0.56	0.29	-0.27
(V) RS FWD TOP CORNER	0.32	2.90	-2.13	1.08	-1.22	0.76	-0.77	0.40	-0.40
(T) RS FWD TOP CORNER	0.27	1.72	-2.03	0.89	-0.91	0.65	-0.67	0.34	-0.33
(L) RS FWD TOP CORNER	0.24	2.24	-3.03	1.10	-1.00	0.63	-0.59	0.30	-0.29
(V) RS FWD BOTTOM CORNER	0.32	2.00	-1.58	1.03	-1.25	0.74	-0.77	0.39	-0.42
(T) RS FWD BOTTOM CORNER	0.16	0.97	-0.59	0.52	-0.49	0.41	-0.37	0.21	-0.21
(L) RS FWD BOTTOM CORNER	0.14	1.03	-0.80	0.56	-0.58	0.37	-0.37	0.17	-0.17
(V) RS AFT BOTTOM CORNER	0.32	1.57	-2.82	1.19	-1.14	0.76	-0.82	0.39	-0.40
(T) RS AFT BOTTOM CORNER	0.17	1.20	-1.28	0.54	-0.57	0.40	-0.41	0.22	-0.20
(L) RS AFT BOTTOM CORNER	0.13	1.30	-0.87	0.52	-0.52	0.35	-0.36	0.16	-0.16
(V) CS AFT BOTTOM CORNER	0.34	1.58	-2.98	1.12	-1.38	0.78	-0.87	0.43	-0.42
(T) CS AFT BOTTOM CORNER	0.17	1.36	-0.98	0.55	-0.56	0.40	-0.39	0.22	-0.21
(L) CS AFT BOTTOM CORNER	0.14	4.03	-3.50	0.58	-0.58	0.36	-0.37	0.17	-0.16
(V) CS FWD BOTTOM CORNER	0.30	1.29	-1.19	1.04	-0.89	0.81	-0.66	0.37	-0.37
(T) CS FWD BOTTOM CORNER	0.16	0.73	-0.65	0.52	-0.48	0.40	-0.37	0.21	-0.20
(L) CS FWD BOTTOM CORNER	0.16	1.09	-1.27	0.62	-0.66	0.42	-0.42	0.17	-0.17
(V) FWD FLOOR	0.22	1.52	-1.09	0.79	-0.84	0.56	-0.50	0.27	-0.28
(T) FWD FLOOR	0.14	0.57	-0.63	0.44	-0.44	0.35	-0.32	0.18	-0.17
(L) FWD FLOOR	0.12	0.66	-0.67	0.50	-0.49	0.32	-0.35	0.16	-0.13
(V) AFT FLOOR	0.22	1.78	-2.62	0.85	-0.89	0.52	-0.59	0.26	-0.26
(T) AFT FLOOR	0.15	0.79	-0.77	0.47	-0.47	0.35	-0.31	0.19	-0.17
(L) AFT FLOOR	0.12	1.00	-0.77	0.50	-0.49	0.32	-0.34	0.14	-0.13
	MEAN	STD DEV	MAX	MIN	+90%	-90%			
VEHICLE SPEED	9.97	3.77	20.49	-5.67	15.11	6.54			

TABLE B-11. AMPLITUDE DISTRIBUTION

May 28 08:34 1996 run179.amd Page 1

Tue Jan 10 18:37:14 1995

AMPLITUDE DISTRIBUTION PROGRAM (AMDST)
REV S 13DEC94

Type III Mobility Study

RUN 179: M1022A1 (Max), Bel Block at 15 mph (CCW, Left)

DESCRIPTION	RMS	+PEAK	-PEAK	+99.9%	-99.9%	+99%	-99%	+90%	-90%
(V) CS FWD TOP CORNER	0.34	1.86	-1.90	1.20	-1.23	0.81	-0.87	0.42	-0.43
(T) CS FWD TOP CORNER	0.45	4.64	-6.35	1.79	-1.89	1.18	-1.09	0.53	-0.52
(L) CS FWD TOP CORNER	0.28	3.24	-3.89	1.23	-1.14	0.71	-0.68	0.33	-0.34
(V) CS AFT TOP CORNER	0.44	2.32	-2.65	1.57	-1.61	1.06	-1.03	0.55	-0.5 6
(T) CS AFT TOP CORNER	0.73	3.80	-4.69	2.40	-2.79	1.63	-1.79	0.91	-0.95
(L) CS AFT TOP CORNER	0.29	2.60	-2.27	1.22	-1.27	0.74	-0.77	0.35	-0.35
(V) RS AFT TOP CORNER	0.48	5.76	-2.05	1.74	-1.40	1.23	-1.07	0.62	-0.60
(T) RS AFT TOP CORNER	0.69	3.60	-5.04	2.32	-2.58	1.52	-1.67	0.86	-0.88
(L) RS AFT TOP CORNER	0.36	6.88	-5.37	1.94	-1.96	0.89	-0.89	0.39	-0.39
(V) RS FWD TOP CORNER	0.34	2.08	-2.70	1.33	-1.25	0.96	-0.79	0.41	-0.40
(T) RS FWD TOP CORNER	0.46	3.03	-3.21	1.75	-1.82	1.22	-1.13	0.56	-0.54
(L) RS FWD TOP CORNER	0.29	2.54	-2.01	1.14	-1.06	0.72	-0.71	0.36	-0.35
(V) RS FWD BOTTOM CORNER	0.35	2.12	-2.66	1.37	-1.31	0.99	-0.82	0.42	-0.42
(T) RS FWD BOTTOM CORNER	0.25	2.14	-3.11	1.02	-1.07	0.60	-0.62	0.30	-0.31
(L) RS FWD BOTTOM CORNER	0.19	3.08	-2.63	1.02	-0.91	0.46	-0.47	0.22	-0.22
(V) RS AFT BOTTOM CORNER	0.48	5.31	-2.13	1.79	-1.42	1.24	-1.07	0.62	-0.60
(T) RS AFT BOTTOM CORNER	0.44	5.82	-7.54	2.13	-3.09	1.14	-1.07	0.47	-0.47
(L) RS AFT BOTTOM CORNER	0.30	6.13	-4.25	1.82	-1.60	0.78	-0.80	0.32	-0.32
(V) CS AFT BOTTOM CORNER	0.45	2.57	-2.88	1.61	-1.61	1.07	-1.06	0.56	-0.57
(T) CS AFT BOTTOM CORNER	0.42	5.70	-7.97	2.07	-2.81	1.08	-1.02	0.46	-0.45
(L) CS AFT BOTTOM CORNER	0.31	6.33	-8.03	1.84	-2.32	0.74	-0.75	0.30	-0.30
(V) CS FWD BOTTOM CORNER	0.34	1.77	-2.27	1.17	-1.22	0.80	-0.87	0.41	-0.42
(T) CS FWD BOTTOM CORNER	0.25	2.53	-2.47	0.99	-1.03	0.59	-0.60	0.30	-0.30
(L) CS FWD BOTTOM CORNER	0.23	3.38	-2.97	1.16	-1.09	0.56	-0.58	0.26	-0.27
	MEAN	STD DEV	MAX	MIN	+90%	-90%			
VEHICLE SPEED	15.39	0.48	17.93	14.06	15.96	14.77			

TABLE B-12. AMPLITUDE DISTRIBUTION

May 28 08:45 1996 run208.amd Page 1

Thu Feb 16 15:45:18 1995

AMPLITUDE DISTRIBUTION PROGRAM (AMDST)
REV S 13DEC94

Type III Mobility Study

RUN 208: M1022/Non-expand, Belgian Block at 15 mph,L

DESCRIPTION	RMS	+PEAK	-PEAK	+99.9%	-99.9%	+99%	-99%	+90%	-90%
(V) CS FWD TOP CORNER	0.29	1.13	-1.13	0.97	-0.95	0.72	-0.67	0.37	-0.37
(T) CS FWD TOP CORNER	0.30	0.89	-1.16	0.77	-0.92	0.65	-0.73	0.38	-0.40
(L) CS FWD TOP-CORNER	0.14	0.62	-0.55	0.51	-0.46	0.33	-0.35	0.17	-0.17
(V) CS AFT TOP: CORNER	0.30	1.12	-1.16	0.91	-0.92	0.69	-0.70	0.38	-0.41
(T) CS AFT TOP CORNER	0.35	0.99	-1.14	0.87	-0.99	0.75	-0.81	0.45	-0.45
(L) CS AFT TOP CORNER	0.14	0.65	-0.52	0.52	-0.46	0.33	-0.35	0.17	-0.17
(V) RS AFT TOP CORNER	0.26	1.08	-0.93	0.79	-0.76	0.58	-0.61	0.35	-0.33
(T) RS AFT TOP CORNER	0.31	0.89	-1.02	0.78	-0.88	0.67	-0.73	0.40	-0.40
(L) RS AFT TOP CORNER	0.13	0.67	-0.66	0.48	-0.46	0.32	-0.33	0.16	-0.16
(V) RS FWD TOP CORNER	0.26	0.87	-0.91	0.77	-0.78	0.61	-0.62	0.34	-0.33
(T) RS FWD TOP CORNER	0.30	0.88	-1.16	0.76	-0.90	0.65	-0.73	0.38	-0.40
(L) RS FWD TOP CORNER	0.13	0.63	-0.62	0.48	-0.47	0.33	-0.34	0.16	-0.17
(V) RS FWD BOTTOM CORNER	0.27	0.93	-0.97	0.81	-0.82	0.64	-0.65	0.35	-0.34
(T) RS FWD BOTTOM CORNER	0.14	0.47	-0.45	0.37	-0.41	0.30	-0.31	0.17	-0.18
(L) RS FWD BOTTOM CORNER	0.09	0.59	-0.49	0.35	-0.38	0.25	-0.24	0.12	-0.10
(V) RS AFT BOTTOM CORNER	0.27	1.13	-0.95	0.83	-0.81	0.61	-0.63	0.37	-0.35
(T) RS AFT BOTTOM CORNER	0.13	0.40	-0.50	0.33	-0.42	0.26	-0.33	0.17	-0.17
(L) RS AFT BOTTOM CORNER	0.09	0.47	-0.45	0.35	-0.37	0.26	-0.24	0.13	-0.09
(V) CS AFT BOTTOM CORNER	0.31	1.13	-1.16	0.93	-0.95	0.70	-0.71	0.39	-0.41
(T) CS AFT BOTTOM CORNER	0.14	0.44	-0.54	0.37	-0.46	0.29	-0.34	0.17	-0.18
(L) CS AFT BOTTOM CORNER	0.10	0.56	-0.54	0.38	-0.38	0.27	-0.26	0.13	-0.10
(V) CS FWD BOTTOM CORNER	0.31	1.22	-1.18	1.01	-1.00	0.75	-0.70	0.39	-0.38
(T) CS FWD BOTTOM CORNER	0.14	0.48	-0.49	0.37	-0.41	0.30	-0.31	0.18	-0.18
(L) CS FWD BOTTOM CORNER	0.11	0.74	-0.59	0.45	-0.44	0.29	-0.28	0.13	-0.12
(V) FWD FLOOR	0.20	0.90	-0.83	0.68	-0.58	0.48	-0.44	0.26	-0.25
(T) FWD FLOOR	0.13	0.45	-0.46	0.36	-0.39	0.29	-0.31	0.17	-0.18
(L) FWD FLOOR	0.12	0.91	-0.69	0.55	-0.46	0.32	-0.30	0.14	-0.13
(V) AFT FLOOR	0.20	0.79	-0.75	0.70	-0.64	0.49	-0.48	0.27	-0.26
(T) AFT FLOOR	0.13	0.40	-0.50	0.34	-0.43	0.27	-0.33	0.16	-0.17
(L) AFT FLOOR	0.10	0.47	-0.53	0.36	-0.39	0.27	-0.25	0.12	-0.10
	MEAN	STD DEV	MAX	MIN	+90%	-90%			
VEHICLE SPEED	15.54	0.39	16.54	14.56	16.05	14.98			

TABLE B-13. AMPLITUDE DISTRIBUTION

May 28 08:26 1996 run255.amd Page 1

Thu Mar 9 17:35:00 1995

AMPLITUDE DISTRIBUTION PROGRAM (AMDST): Revision T - 17 Feb 95

Type III Mobility Study

RUN 255: M832/S280, Bel. Block at 15 mph (CW, Rt)

DESCRIPTION	RMS	+PEAK	-PEAK	+99.9%	-99.9%	+99%	-99%	+90%	-90%
(V) CS FWD TOP BRKT	0.41	2.23	-1.46	1.92	-1.25	0.98	-0.98	0.50	-0.50
(T) CS FWD TOP BRKT	0.21	2.10	-2.19	0.71	-0.79	0.51	-0.54	0.25	-0.26
(L) CS FWD TOP BRKT	0.15	1.80	-1.52	0.61	-0.60	0.37	-0.37	0.19	-0.18
(V) CS AFT TOP BRKT	0.49	2.22	-1.87	1.86	-1.46	1.16	-1.20	0.62	-0.60
(T) CS AFT TOP BRKT	0.27	1.76	-1.69	1.00	-0.93	0.66	-0.64	0.32	-0.33
(L) CS AFT TOP BRKT	0.17	1.50	-1 .6 6	0.61	-0.69	0.42	-0.42	0.21	-0.20
(V) RS AFT TOP BRKT	0.50	2.09	-1.86	1.66	-1.58	1.26	-1.18	0.64	-0.60
(T) RS AFT TOP BRKT	0.25	1.34	-1.34	0.98	-0.87	0.64	-0.61	0.31	-0.33
(L) RS AFT TOP BRKT	0.18	1.17	-0.83	0.65	-0.59	0.44	-0.40	0.23	-0.22
(V) RS FWD TOP BRKT	0.38	1.71	-1.66	1.38	-1.19	0.94	-0.89	0.51	-0.46
(T) RS FWD TOP BRKT	0.23	2.31	-2.95	0.86	-0.91	0.56	-0.59	0.26	-0.28
(L) RS FWD TOP BRKT	0.16	2.27	-1.79	0.63	-0.53	0.39	-0.35	0.20	-0.19
(V) RS FWD BOTTOM BRKT	0.39	3.00	-4.97	1.55	-1.53	0.99	-0.96	0.50	-0.46
(T) RS FWD BOTTOM BRKT	0.22	1.31	-1.20	0.74	-0.78	0.52	-0.56	0.26	-0.27
(L) RS FWD BOTTOM BRKT	0.35	9.36	-9.02	2.48	-2.48	0.84	-0.81	0.31	-0.31
(V) RS AFT BOTTOM BRKT	0.49	5.79	-3.07	1.66	-1.62	1.25	-1.18	0.63	-0.58
(T) RS AFT BOTTOM BRKT	0.21	1.60	-0.93	0.79	-0.70	0.53	-0.52	0.26	•0.27
(L) RS AFT BOTTOM BRKT	0.34	11.17	-8.25	1.74	-1.72	0.88	-0.89	0.37	-0.37
(V) CS AFT BOTTOM BRKT	0.48	2.48	-2.23	1.80	-1.50	1.18	-1.16	0.60	-0.57
(T) CS AFT BOTTOM BRKT	0.23	1.60	-1.02	0.86	-0.77	0.58	-0.56	0.29	-0.29
(L) CS AFT BOTTOM BRKT	0.43	12.26	-17.89	2.49	-2.84	0.90	-0.94	0.33	-0.36
(V) CS FWD BOTTOM BRKT	0.41	2.34	-1.71	1.90	-1.27	1.01	-1.01	0.51	-0.49
(T) CS FWD BOTTOM BRKT	0.22	0.92	-1.21	0.72	-0.77	0.51	-0.56	0.26	-0.27
(L) CS FWD BOTTOM BRKT	0.28	4.30	-6.45	1.62	-1.72	0.69	-0.71	0.29	-0.28
(V) FWD FLOOR	0.30	1.66	-1.79	1.19	-1.05	0.73	-0.72	0.37	-0.35
(T) FWD FLOOR	0.20	1.21	-1.29	0.66	-0.75	0.48	-0.50	0.24	-0.25
(L) FWD FLOOR	0.17	1.43	-1.16	0.66	-0.66	0.42	-0.42	0.20	-0.20
(V) AFT FLOOR	0.41	1.95	-1.81	1.56	-1.31	1.02	-1.01	0.52	-0.50
(T) AFT FLOOR	0.19	0.98	-0.84	0.72	-0.65	0.47	-0.47	0.24	-0.24
(L) AFT FLOOR	0.14	0.78	-1.15	0.50	-0.48	0.36	-0.34	0.18	-0.17
•	MEAN	STD DEV	/ MAX	MIN	+90%	-90%			
VEHICLE SPEED	14.38	0.43	16.31	13.20	14.93	13.84			

Tracks analyzed: 1 to 500

TABLE B-14. AMPLITUDE DISTRIBUTION

May 28 08:30 1996 run294.amd Page 1

Thu Apr 6 16:38:51 1995

AMPLITUDE DISTRIBUTION PROGRAM (AMDST): Revision T - 17 Feb 95

Type III Mobility Study

RUN 294: HHV/SICPS, Bel Block at 15 mph (CW, Left)

DESCRIPTION	RMS	+PEAK	-PEAK	+99.9%	-99.9%	+99%	-99%	+90%	-90%
(V) CS FLOOR	0.28	1.10	-1.15	0.90	-0.96	0.69	-0.67	0.34	-0.35
(T) CS FLOOR	0.18	0.72	-0.59	0.58	-0.48	0.43	-0.38	0.23	-0.23
(L) CS FLOOR	0.12	0.46	-0.50	0.38	-0.40	0.27	-0.29	0.14	-0.15
(V) FWD FLOOR	0.20	0.79	-0.86	0.74	-0.73	0.50	-0.49	0.25	-0.23
(T) FWD FLOOR	0.16	0.65	-0.57	0.50	-0.50	0.38	-0.37	0.21	-0.21
(L) FWD FLOOR	0.10	0.50	-0.46	0.34	-0.35	0.24	-0.25	0.13	-0.13
(V) RS FLOOR	0.27	1.19	-1.08	0.97	-0.89	0.74	-0.67	0.34	-0.32
(T) RS FLOOR	0.16	0.65	-0.56	0.47	-0.46	0.38	-0.35	0.21	-0.20
(L) RS FLOOR	0.11	0.55	-0.43	0.37	-0.37	0.28	-0.27	0.15	-0.14
(V) RS WALL	0.30	1.49	-1.56	1.04	-1.01	0.76	-0.70	0.38	-0.36
(T) RS WALL	0.33	1.72	-1.16	1.08	-0.94	0.82	-0.72	0.43	-0.41
(L) RS WALL	0.22	1.52	-1.21	0.77	-0.81	0.54	-0.55	0.28	-0.27
(V) FWD RACK BASE	0.19	0.72	-0.84	0.62	-0.69	0.47	-0.45	0.24	-0.23
(T) FWD RACK BASE	0.22	0.82	-0.65	0.68	-0.62	0.54	-0.48	0.30	-0.28
(L) FWD RACK BASE	0.13	0.76	-0.56	0.50	-0.44	0.34	-0.31	0.16	-0.16
(V) CS WALL	0.30	1.29	-1.61	0.92	-1.03	0.70	-0.71	0.38	-0.39
(T) CS WALL	0.35	2.01	-4.66	1.09	-1.78	0.79	-0.81	0.43	-0.43
(L) CS WALL	0.26	4.40	-6.40	1.53	-1.44	0.63	-0.60	0.29	-0.28
(V) CS FWD MOUNT	0.22	0.87	-1.04	0.75	-0.83	0.54	-0.52	0.28	-0.27
(T) CS FWD MOUNT	0.20	0.82	-0.89	0.62	-0.65	0.48	-0.50	0.26	-0.26
(L) CS FWD MOUNT	0.12	0.50	-0.59	0.37	-0.39	0.27	-0.29	0.15	-0.14
(V) GEN COMP FLOOR	0.18	0.74	-0.79	0.66	-0.67	0.46	-0.44	0.22	-0.21
(T) GEN COMP FLOOR	0.15	0.60	-0.56	0.48	-0.47	0.36	-0.36	0.20	-0.19
(L) GEN COMP FLOOR	0.09	0.41	-0.40	0.29	-0.30	0.20	-0.22	0.12	-0.11
(V) CS AFT CORNER	0.33	1.11	-1.24	0.99	-1.08	0.76	-0.76	0.43	-0.43
(T) CS AFT CORNER	0.19	0.75	-1.10	0.62	-0.59	0.47	-0.42	0.24	-0.24
(L) CS AFT CORNER	0.16	0.78	-0.73	0.52	-0.55	0.38	-0.39	0.20	-0.20
(V) RS AFT CORNER	0.37	1.51	-1.58	1.32	-1.17	0.94	-0.86	0.48	-0.45
(T) RS AFT CORNER	0.18	0.70	-0.60	0.57	-0.50	0.43	-0.38	0.23	-0.23
(L) RS AFT CORNER	0.14	0.57	-0.59	0.47	-0.44	0.35	-0.34	0.19	-0.18
(V) RS AFT HMMWV	0.34	1.63	-1.27	1.15	-1.08	0.87	-0.81	0.43	-0.42
	MEAN	STD DEV	MAX	MIN	+90%	-90%			
VEHICLE SPEED	15.43	0.43	17.35	14.14	15.90	14.81			

Tracks analyzed: 1 to 500

TABLE B-15. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

20	NUMBER OF	BREAK POINTS			
	3.00	0.0706279	FREQUENCY	AND	AMPLITUDE
	4.00	0.0567729	FREQUENCY	AND	AMPLITUDE
	7.00	0.0046944	FREQUENCY	AND	AMPLITUDE
	14.00	0.0040098	FREQUENCY	AND	AMPLITUDE
	19.00	0.0060147	FREQUENCY	AND	AMPLITUDE
	36.00	0.0007009	FREQUENCY	AND	AMPLITUDE
	39.00	0.0011573	FREQUENCY	AND	AMPLITUDE
	43.00	0.0003586	FREQUENCY	AND	AMPLITUDE
	47.00	0.0004890	FREQUENCY	AND	AMPLITUDE
	50.00	0.0002282	FREQUENCY	AND	AMPLITUDE
	54.00	0.0004238	FREQUENCY	AND	AMPLITUDE
	57.00	0.0003260	FREQUENCY	AND	AMPLITUDE
	64.00	0.0004890	FREQUENCY	AND	AMPLITUDE
	98.00	0.0000326	FREQUENCY	AND	AMPLITUDE
	105.00	0.0013855	FREQUENCY	AND	AMPLITUDE
	111.00	0.0000326	FREQUENCY	AND	AMPLITUDE
	125.00	0.0000163	FREQUENCY	AND	AMPLITUDE
	135.00	0.0000163	FREQUENCY	AND	AMPLITUDE
	138.00	0.0000163	FREQUENCY	AND	AMPLITUDE
	141.00	0.0000163	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.53

M923/S280 TYPE III MOBILITY VIBRATION SCHEDULE, VERTICAL

TABLE B-16. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

22	NUMBER OF	BREAK POINTS			
	3.00	0.0124587	FREQUENCY	AND AM	PLITUDE
	6.00	0.0033274	FREQUENCY	AND AM	PLITUDE
•	8.00	0.0124587	FREQUENCY	AND AM	PLITUDE
	11.00	0.0018288	FREQUENCY	AND AM	PLITUDE
	27.00	0.0009144	FREQUENCY		
	42.00	0.0001143	FREQUENCY	AND AM	PLITUDE
	46.00	0.0006604	FREQUENCY	AND AM	PLITUDE
	55.00	0.0001524	FREQUENCY	AND AM	PLITUDE
	66.00	0.0009398	FREQUENCY	AND AM	PLITUDE
	73.00	0.0000127	FREQUENCY	AND AM	PLITUDE
	78.00	0.0000381	FREQUENCY	AND AM	PLITUDE
	85.00	0.0000127	FREQUENCY	AND AM	PLITUDE
	90.00	0.0000254	FREQUENCY	AND AM	PLITUDE
	97.00	0.0000127	FREQUENCY	AND AM	PLITUDE
	105.00	0.0000762	FREQUENCY	AND AM	PLITUDE
	112.00	0.0000127	FREQUENCY	AND AM	PLITUDE
	121.00	0.0000127	FREQUENCY	AND AM	PLITUDE
	124.00	0.0000127	FREQUENCY	AND AM	PLITUDE
	127.00	0.0000127	FREQUENCY	AND AM	PLITUDE
	407.00	0.0000127	FREQUENCY	AND AM	PLITUDE
	417.00	0.0000762	FREQUENCY	AND AM	IPL I TUDE
	423.00	0.0000127	FREQUENCY	AND AM	PLITUDE

M923/S280 TYPE III MOBILITY VIBRATION SCHEDULE, TRANSVERSE

TABLE B-17. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

31	NUMBER OF	BREAK POINTS			
	3.00	0.0046648	FREQUENCY	AND	AMPLITUDE
	4.00	0.0048902	FREQUENCY	AND	AMPLITUDE
	6.00	0.0008526	FREQUENCY	AND	AMPLITUDE
	8.00	0.0033124	FREQUENCY	AND	AMPLITUDE
	11.00	0.0005586	FREQUENCY	AND	AMPLITUDE
	16.00	0.0006272	FREQUENCY	AND	AMPLITUDE
	22.00	0.0002548	FREQUENCY	AND	AMPLITUDE
	27.00	0.0004900	FREQUENCY	AND	AMPLITUDE
	43.00	0.0000392	FREQUENCY	AND	AMPLITUDE
	47.00	0.0002646	FREQUENCY	AND	AMPLITUDE
	58.00	0.0000784	FREQUENCY	AND	AMPLITUDE
	65.00	0.0005194	FREQUENCY	AND	AMPLITUDE
	86.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	88.00	0.0000098	FREQUENCY	AND	AMPLITUDE
	96.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	105.00	0.0001176	FREQUENCY	AND	AMPLITUDE
	121.00	0.0000098	FREQUENCY	AND	AMPLITUDE
	125.00	0.0000098	FREQUENCY	AND	AMPLITUDE
	136.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	152.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	156.00	0.0000000			AMPLITUDE
	206.00	0.0000000			AMPLITUDE
	211.00	0.0000000			AMPLITUDE
	214.00	0.0000000			AMPLITUDE
	262.00	0.0000000			AMPLITUDE
	270.00	0.0000000			AMPLITUDE
	288.00	0.0000000			AMPLITUDE
	336.00	0.0000000			AMPLITUDE
	375.00	0.0000000			AMPLITUDE
	423.00	0.0000196			AMPLITUDE
	451.00	0.0000000	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.19
M923/S280 TYPE III MOBILITY VIBRATION SCHEDULE, LONGITUDINAL

TABLE B-18. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

13	NUMBER OF	BREAK POINTS	
	3.00	0.0057879	FREQUENCY AND AMPLITUDE
	5.00	0.0016343	FREQUENCY AND AMPLITUDE
	7.00	0.0058528	FREQUENCY AND AMPLITUDE
	23.00	0.0001357	FREQUENCY AND AMPLITUDE
	28.00	0.0002596	FREQUENCY AND AMPLITUDE
	33.00	0.0000531	FREQUENCY AND AMPLITUDE
	38.00	0.0000649	FREQUENCY AND AMPLITUDE
	43.00	0.0000472	FREQUENCY AND AMPLITUDE
	46.00	0.0000590	FREQUENCY AND AMPLITUDE
	63.00	0.0000059	FREQUENCY AND AMPLITUDE
	103.00	0.0000059	FREQUENCY AND AMPLITUDE
	109.00	0.0000295	FREQUENCY AND AMPLITUDE
	118.00	0.0000059	FREQUENCY AND AMPLITUDE

RMS VALUE = 0.19

HMMWV/S250 TYPE III MOBILITY SCHEDULE, VERTICAL

TABLE B-19. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

28	NUMBER O	F BREAK POINTS	
	3.00	0.0043413	FREQUENCY AND AMPLITUDE
	5.00	0.0004350	FREQUENCY AND AMPLITUDE
	7.00	0.0003828	FREQUENCY AND AMPLITUDE
	10.00	0.0035409	FREQUENCY AND AMPLITUDE
	13.00	0.0022185	FREQUENCY AND AMPLITUDE
	15.00	0.0029841	FREQUENCY AND AMPLITUDE
	37.00	0.0000261	FREQUENCY AND AMPLITUDE
	43.00	0.0000348	FREQUENCY AND AMPLITUDE
	68.00	0.0000000	FREQUENCY AND AMPLITUDE
	72.00	0.0000000	FREQUENCY AND AMPLITUDE
	79.00	0.0000000	FREQUENCY AND AMPLITUDE
	83.00	0.0000000	FREQUENCY AND AMPLITUDE
	92.00	0.0000000	FREQUENCY AND AMPLITUDE
	100.00	0.0000000	FREQUENCY AND AMPLITUDE
	110.00	0.0000000	FREQUENCY AND AMPLITUDE
	128.00	0.0000000	FREQUENCY AND AMPLITUDE
	146.00	0.0000000	FREQUENCY AND AMPLITUDE
	181.00	0.0000087	FREQUENCY AND AMPLITUDE
	186.00	0.0000000	FREQUENCY AND AMPLITUDE
	220.00	0.000000	FREQUENCY AND AMPLITUDE
	223.00	0.0000000	FREQUENCY AND AMPLITUDE
	305.00	0.0000000	FREQUENCY AND AMPLITUDE
	341.00	0.0000000	FREQUENCY AND AMPLITUDE
	352.00	0.0000000	FREQUENCY AND AMPLITUDE
	388.00	0.0000000	FREQUENCY AND AMPLITUDE
	394.00	0.0000000	FREQUENCY AND AMPLITUDE
	407.00	0.0000000	FREQUENCY AND AMPLITUDE
	413.00	0.0000000	FREQUENCY AND AMPLITUDE

RMS VALUE = 0.19 HMMWV/S250 TYPE III MOBILITY SCHEDULE, TRANSVERSE

TABLE B-20. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

31	NUMBER OF	BREAK POINTS			
	3.00	0.0003486	FREQUENCY	AND	AMPLITUDE
	5.00	0.0001743	FREQUENCY	AND	AMPLITUDE
	12.00	0.0019920	FREQUENCY	AND	AMPLITUDE
	16.00	0.0017596	FREQUENCY	AND	AMPLITUDE
	35.00	0.0000166	FREQUENCY	AND	AMPLITUDE
	43.00	0.0000166	FREQUENCY	AND	AMPLITUDE
	47.00	0.0000332	FREQUENCY	AND	AMPLITUDE
	70.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	73.00	0.0000083	FREQUENCY	AND	AMPLITUDE
	87.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	94.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	97.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	104.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	109.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	126.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	137.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	144.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	162.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	171.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	178.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	189.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	198.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	203.00	0.0000000			AMPLITUDE
	206.00	0.0000000			AMPLITUDE
	336.00	0.0000000			AMPLITUDE
	341.00	0.0000000			AMPLITUDE
	347.00	0.0000000			AMPLITUDE
	369.00	0.0000000			AMPLITUDE
	381.00	0.0000000	FREQUENCY		
	403.00	0.0000000	•		AMPLITUDE
	437.00	0.0000000	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.14 HMMWV/S250 TYPE III MOBILITY SCHEDULE, LONGITUDINAL

TABLE B-21. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

32	NUMBER O	F BREAK POINTS			
	3.00	0.0108891	FREQUENCY	AND	AMPLITUDE
	5.00	0.0048618	FREQUENCY	AND	AMPLITUDE
	7.00	0.0108891	FREQUENCY	AND	AMPLITUDE
	14.00	0.0009768	FREQUENCY	AND	AMPLITUDE
	16.00	0.0041292	FREQUENCY	AND	AMPLITUDE
	30.00	0.0001554	FREQUENCY	AND	AMPLITUDE
	37.00	0.0002664	FREQUENCY	AND	AMPLITUDE
	51.00	0.0000555	FREQUENCY	AND	AMPLITUDE
	55.00	0.0000555	FREQUENCY	AND	AMPLITUDE
	60.00	0.0001887	FREQUENCY	AND	AMPLITUDE
	69.00	0.0000222	FREQUENCY	AND	AMPLITUDE
	72.00	0.0000333	FREQUENCY	AND	AMPLITUDE
	81.00	0.0000222	FREQUENCY	AND	AMPLITUDE
	85.00	0.0000666	FREQUENCY	AND	AMPLITUDE
	92.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	116.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	121.00	0.0000222	FREQUENCY	AND	AMPLITUDE
	122.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	136.00	0.0000222	FREQUENCY	AND	AMPLITUDE
	147.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	152.00	0.0000222	FREQUENCY	AND	AMPLITUDE
	165.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	177.00	0.0000555	FREQUENCY	AND	AMPLITUDE
	183.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	199.00	0.0000222	FREQUENCY	AND	AMPLITUDE
	204.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	268.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	270.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	275.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	369.00	0.0000111	FREQUENCY	AND	AMPLITUDE
	407.00	0.0000777			AMPLITUDE
	427.00	0.0000111	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.30 M1097 HHV/M787 TYPE III MOBILITY VIBRATION SCHEDULE, VERTICAL

TABLE B-22. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

3.00 0.0027468 FREQUENCY AND AMPLITUE 5.00 0.0002604 FREQUENCY AND AMPLITUE 7.00 0.0004536 FREQUENCY AND AMPLITUE 9.00 0.0029736 FREQUENCY AND AMPLITUE 12.00 0.0004620 FREQUENCY AND AMPLITUE 16.00 0.0021420 FREQUENCY AND AMPLITUE 28.00 0.0002268 FREQUENCY AND AMPLITUE	
7.00 0.0004536 FREQUENCY AND AMPLITUE 9.00 0.0029736 FREQUENCY AND AMPLITUE 12.00 0.0004620 FREQUENCY AND AMPLITUE 16.00 0.0021420 FREQUENCY AND AMPLITUE	E E E E E
9.00 0.0029736 FREQUENCY AND AMPLITUDE 12.00 0.0004620 FREQUENCY AND AMPLITUDE 16.00 0.0021420 FREQUENCY AND AMPLITUDE	E E E E
12.00 0.0004620 FREQUENCY AND AMPLITUDE 16.00 0.0021420 FREQUENCY AND AMPLITUDE	E
16.00 0.0021420 FREQUENCY AND AMPLITUD	E E E
	E E
28 00 0 0002268 EPEQUENCY AND AMPLITUD	E
LOTO OTOGOLOGO TREGOLAGO AND ANTELLION	E
33.00 0.0003612 FREQUENCY AND AMPLITUD	-
50.00 0.0000084 FREQUENCY AND AMPLITUD	_
61.00 0.0000168 FREQUENCY AND AMPLITUD	E
85.00 0.0000084 FREQUENCY AND AMPLITUD	Ε
109.00 0,0000000 FREQUENCY AND AMPLITUD	Ε
115.00 0.0000000 FREQUENCY AND AMPLITUD	Ε
129.00 0.0000000 FREQUENCY AND AMPLITUD	Ε
139.00 0.0000000 FREQUENCY AND AMPLITUD	Ε
162.00 0.0000000 FREQUENCY AND AMPLITUD	Ē
177.00 0.0000168 FREQUENCY AND AMPLITUD	Ε
186.00 0.0000000 FREQUENCY AND AMPLITUD	Ξ
193.00 0.0000168 FREQUENCY AND AMPLITUD	Ē
206.00 0.0000000 FREQUENCY AND AMPLITUD	Ξ
227.00 0.0000000 FREQUENCY AND AMPLITUD	Ξ
242.00 0.0000000 FREQUENCY AND AMPLITUD	Ξ
260.00 0.0000000 FREQUENCY AND AMPLITUD	Ξ
273.00 0.0000084 FREQUENCY AND AMPLITUD	Ξ
298.00 0.0000000 FREQUENCY AND AMPLITUD	Ξ
307.00 0.0000084 FREQUENCY AND AMPLITUD	_
328.00 0.0000000 FREQUENCY AND AMPLITUDE	:
394.00 0.0000168 FREQUENCY AND AMPLITUDE	
420.00 0.0000000 FREQUENCY AND AMPLITUDE	-
448.00 0.0000084 FREQUENCY AND AMPLITUDE	
470.00 0.0000000 FREQUENCY AND AMPLITUDE	
485.00 0.0000084 FREQUENCY AND AMPLITUDE	

RMS VALUE = 0.17

M1097 HHV/S787 TYPE III MOBILITY VIBRATION SCHEDULE, TRANSVERSE

TABLE B-23. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

29	NUMBER (F BREAK POINTS			
	3.00	0.0002736	FREQUENCY	AND	AMPLITUDE
	5.00	0.0001392	FREQUENCY	AND	AMPLITUDE
	9.00	0.0012432	FREQUENCY	AND	AMPLITUDE
	12.00	0.0004656	FREQUENCY	AND	AMPLITUDE
	16.00	0.0012432	FREQUENCY	AND	AMPLITUDE
	29.00	0.0000576	FREQUENCY	AND	AMPLITUDE
	33.00	0.0001056	FREQUENCY	AND	AMPLITUDE
	52.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	63.00	0.0000240	FREQUENCY	AND	AMPLITUDE
	69.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	73.00	0.0000240	FREQUENCY	AND	AMPLITUDE
	79.00	0.0000048	FREQUENCY	AND	AMPLITUDE
	85.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	101.00	0.0000048	FREQUENCY	AND	AMPLITUDE
	128.00	0.0000432	FREQUENCY	AND	AMPLITUDE
	166.00	0.0000624	FREQUENCY	AND	AMPLITUDE
	178.00	0.0001632	FREQUENCY	AND	AMPLITUDE
	189.00	0.0000480	FREQUENCY	AND	AMPLITUDE
	203.00	0.0002304	FREQUENCY	AND	AMPLITUDE
	221.00	0.0000048	FREQUENCY	AND	AMPLITUDE
	246.00	0.0000288	FREQUENCY	AND	AMPLITUDE
	262.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	277.00	0.0000528	FREQUENCY	AND	AMPLITUDE
	295.00	0.0000048	FREQUENCY	AND	AMPLITUDE
	307.00	0.0000144	FREQUENCY	AND	AMPLITUDE
	325.00	0.0000048	FREQUENCY	AND	AMPLITUDE
	407.00	0.0000480	FREQUENCY	AND	AMPLITUDE
	451.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	489.00	0.0000000	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.16 M1097 HHV/S787 TYPE III MOBILITY VIBRATION SCHEDULE, LONGITUDINAL

TABLE B-24. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

31	NUMBER	OF	BREAK POINTS			
	3.00		0.0174427	FREQUENCY	AND	AMPLITUDE
	12.00		0.0012726	FREQUENCY	AND	AMPLITUDE
	13.00		0.0044238	FREQUENCY	AND	AMPLITUDE
	15.00		0.0008383	FREQUENCY	AND	AMPLITUDE
	25.00		0.0005353	FREQUENCY	AND	AMPLITUDE
	27.00		0.0012928	FREQUENCY	AND	AMPLITUDE
	29.00		0.0002828	FREQUENCY	AND	AMPLITUDE
	37.00		0.0001717	FREQUENCY	AND	AMPLITUDE
	40.00		0.0002626	FREQUENCY	AND	AMPLITUDE
	46.00		0.0001818	FREQUENCY	AND	AMPLITUDE
	50.00		0.0001010	FREQUENCY	AND	AMPLITUDE
	54.00		0.0001515	FREQUENCY	AND	AMPLITUDE
	68.00		0.0000505	FREQUENCY	AND	AMPLITUDE
	75.00		0.0001717	FREQUENCY	AND	AMPLITUDE
	102.00	;	0.0000202	FREQUENCY	AND	AMPLITUDE
	121.00		0.0000505	FREQUENCY	AND	AMPLITUDE
	145.00		0.0000202	FREQUENCY	AND	AMPLITUDE
	151.00		0.0000303	FREQUENCY	AND	AMPLITUDE
	163.00		0.0000202	FREQUENCY	AND	AMPLITUDE
	189.00		0.0000404	FREQUENCY	AND	AMPLITUDE
	198.00		0.0000303	FREQUENCY	AND	AMPLITUDE
	229.00		0.0000606	FREQUENCY	AND	AMPLITUDE
	244.00		0.0008989	FREQUENCY	AND	AMPLITUDE
	279.00		0.0000202	FREQUENCY	AND	AMPLITUDE
	293.00		0.0000101	FREQUENCY	AND	AMPLITUDE
	317.00		0.0000202	FREQUENCY	AND	AMPLITUDE
	336.00		0.0000202			AMPLITUDE
	364.00		0.0000101			AMPLITUDE
	462.00		0.0000101	FREQUENCY		AMPLITUDE
	473.00		0.0000303			AMPLITUDE
	497.00		0.0000101	FREQUENCY	AND	AMPLITUDE
		7.				

RMS VALUE = 0.31

M1022 EXPANDABLE SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, VERTICAL

TABLE B-25. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

33	NUMBER OF	BREAK POINTS	
	3.00	0.0071831	FREQUENCY AND AMPLITUDE
	6.00	0.0021037	FREQUENCY AND AMPLITUDE
	9.00	0.0035207	FREQUENCY AND AMPLITUDE
	12.00	0.0017222	FREQUENCY AND AMPLITUDE
	13.00	0.0041420	FREQUENCY AND AMPLITUDE
	18.00	0.0005014	FREQUENCY AND AMPLITUDE
	20.00	0.0005668	FREQUENCY AND AMPLITUDE
	25.00	0.0003488	FREQUENCY AND AMPLITUDE
	27.00	0.0005341	FREQUENCY AND AMPLITUDE
	43.00	0.0000763	FREQUENCY AND AMPLITUDE
	48.00	0.0001308	FREQUENCY AND AMPLITUDE
	67.00	0.0000327	FREQUENCY AND AMPLITUDE
	75.00	0.0000763	FREQUENCY AND AMPLITUDE
	82.00	0.0000109	FREQUENCY AND AMPLITUDE
	117.00	0.0000327	FREQUENCY AND AMPLITUDE
	121.00	0.0000654	FREQUENCY AND AMPLITUDE
	129.00	0.0000327	FREQUENCY AND AMPLITUDE
	135.00	0.0000545	FREQUENCY AND AMPLITUDE
	143.00	0.0000327	FREQUENCY AND AMPLITUDE
	152.00	0.0000436	FREQUENCY AND AMPLITUDE
	165.00	0.0000218	FREQUENCY AND AMPLITUDE
	186.00	0.0000327	FREQUENCY AND AMPLITUDE
	196.00	0.0000109	FREQUENCY AND AMPLITUDE
	206.00	0.0000327	FREQUENCY AND AMPLITUDE
	244.00	0.0014170	I WEGORIAL SING SING TO THE
	264.00	0.0000109	FREQUENCY AND AMPLITUDE
	295.00	0.0000327	FREQUENCY AND AMPLITUDE FREQUENCY AND AMPLITUDE
	320.00	0.0000218	[NEGOTIAL TIME THE CO.
	336.00	0.0000327	11124221121
	381.00	0.0000109	FREQUENCY AND AMPLITUDE FREQUENCY AND AMPLITUDE
	459.00	0.0000109	
	477.00	0.0000327	FREQUENCY AND AMPLITUDE
	497.00	0.0000109	FREQUENCY AND AMPLITUDE

RMS VALUE = 0.29
M1022/EXPANDABLE SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, TRANSVERSE

TABLE B-26. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

26	NUMBER	OF BREAK POINTS	
	3.00	0.0030240	FREQUENCY AND AMPLITUDE
	6.00	0.0007236	FREQUENCY AND AMPLITUDE
	8.00	0.0011988	FREQUENCY AND AMPLITUDE
	10.00	0.0012744	FREQUENCY AND AMPLITUDE
	25.00	0.0001026	FREQUENCY AND AMPLITUDE
	27.00	0.0002214	FREQUENCY AND AMPLITUDE
	38.00	0.0000324	FREQUENCY AND AMPLITUDE
	41.00	0.0000486	FREQUENCY AND AMPLITUDE
	47.00	0.0000432	FREQUENCY AND AMPLITUDE
	50.00	0.0000216	FREQUENCY AND AMPLITUDE
	55.00	0.0000378	FREQUENCY AND AMPLITUDE
	64.00	0.0000162	FREQUENCY AND AMPLITUDE
	75.00	0.0000486	FREQUENCY AND AMPLITUDE
	82.00	0.0000162	FREQUENCY AND AMPLITUDE
	117.00	0.0000216	FREQUENCY AND AMPLITUDE
	121.00	0.0000486	FREQUENCY AND AMPLITUDE
	124.00	0.0000324	FREQUENCY AND AMPLITUDE
	187.00	0.0000810	FREQUENCY AND AMPLITUDE
	198.00	0.0000324	FREQUENCY AND AMPLITUDE
	221.00	0.0000594	FREQUENCY AND AMPLITUDE
	244.00	0.0040014	FREQUENCY AND AMPLITUDE
	264.00	0.0000270	FREQUENCY AND AMPLITUDE
	307.00	0.0000324	FREQUENCY AND AMPLITUDE
	430.00	0.0000108	FREQUENCY AND AMPLITUDE
	477.00	0.0000378	FREQUENCY AND AMPLITUDE
	493.00	0.0000108	FREQUENCY AND AMPLITUDE
RMS 1	VALUE = 0	.28	

M1022/EXPANDABLE SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, LONGITUDINAL

TABLE B-27. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

31	NUMBER OF	BREAK POINTS			
	3.00	0.0162300	FREQUENCY	AND	AMPLITUDE
	12.00	0.0009700	FREQUENCY	AND	AMPLITUDE
	13.00	0.0015700	FREQUENCY	AND	AMPLITUDE
	17.00	0.0004100	FREQUENCY	AND	AMPLITUDE
	20.00	0.0008500	FREQUENCY	AND	AMPLITUDE
	25.00	0.0003800	FREQUENCY	AND	AMPLITUDE
	27.00	0.0012400	FREQUENCY	AND	AMPLITUDE
•	37.00	0.0001200	FREQUENCY	AND	AMPLITUDE
	40.00	0.0001800	FREQUENCY	AND	AMPLITUDE
	47.00	0.0001900	FREQUENCY	ÁND	AMPLITUDE
	50.00	0.0000900	FREQUENCY	AND	AMPLITUDE
	60.00	0.0002400	FREQUENCY	AND	AMPLITUDE
	66.00	0.0000600	FREQUENCY	AND	AMPLITUDE
	73.00	0.0004600	FREQUENCY	AŅD	AMPLITUDE
	90.00	0,0000100	FREQUENCY	AND	AMPLITUDE
	93.00	0.0000200	FREQUENCY	AND	AMPLITUDE
	97.00	0.0000100	FREQUENCY	AND	AMPLITUDE
	109.00	0.0000100	FREQUENCY	AND	AMPLITUDE
	125.00	0.0000300	FREQUENCY	AND	AMPLITUDE
	140.00	0.0000100	FREQUENCY	AND	AMPLITUDE
	147.00	0.0000300	FREQUENCY	AND	AMPLITUDE
	154.00	0.0000100	FREQUENCY	AND	AMPLITUDE
	183.00	0.0000100	FREQUENCY	AND	AMPLITUDE
	195.00	0.0000300	FREQUENCY	AND	AMPLITUDE
	199.00	0.0000100	FREQUENCY	AND	AMPLITUDE
	229.00	0.0000100	FREQUENCY	AND	AMPLITUDE
	244.00	0.0019800	FREQUENCY	AND	AMPLITUDE
	252.00	0.0000100	FREQUENCY	AND	AMPLITUDE
	470.00	0.0000100	FREQUENCY	AND	AMPLITUDE
	477.00	0.0000300	FREQUENCY	AND	AMPLITUDE
	493.00	0.0000100	FREQUENCY	AND	AMPLITUDE

M1022/NON-EXPANDABLE SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, VERTICAL

TABLE B-28. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

25	NUMBER OF	BREAK POINTS			
	3.00	0.0232497	FREQUENCY	AND	AMPLITUDE
	12.00	0.0008058	FREQUENCY	AND	AMPLITUDE
	13.00	0.0017064	FREQUENCY	AND	AMPLITUDE
	15.00	0.0005451	FREQUENCY	AND	AMPLITUDE
	18.00	0.0006162	FREQUENCY	AND	AMPLITUDE
	20.00	0.0015168	FREQUENCY	AND	AMPLITUDE
	25.00	0.0006162	FREQUENCY	AND	AMPLITUDE
	27.00	0.0011850	FREQUENCY	AND	AMPLITUDE
	31.00	0.0002607	FREQUENCY	AND	AMPLITUDE
	33.00	0.0004266	FREQUENCY	AND	AMPLITUDE
	38.00	0.0002133	FREQUENCY	AND	AMPLITUDE
	41.00	0.0003792	FREQUENCY	AND	AMPLITUDE
	45.00	0.0001896	FREQUENCY	AND	AMPLITUDE
	47.00	0.0002607	FREQUENCY	AND	AMPLITUDE
	52.00	0.0000711	FREQUENCY	AND	AMPLITUDE
	54.00	0.0001185	FREQUENCY	AND	AMPLITUDE
	66.00	0.0000237	FREQUENCY	AND	AMPLITUDE
	75.00	0.0002133	FREQUENCY	AND	AMPLITUDE
	81.00	0.0000237	FREQUENCY	AND	AMPLITUDE
	117.00	0.0000237	FREQUENCY	AND	AMPLITUDE
	120.00	0.0000237	FREQUENCY	AND	AMPLITUDE
	128.00	0.0000237	FREQUENCY	AND	AMPLITUDE
	229.00	0.0000237	FREQUENCY	AND	AMPLITUDE
	242.00	0.0017538	FREQUENCY	AND	AMPLITUDE
	254.00	0.0000237	FREQUENCY	AND	AMPLITUDE

M1022/NON-EXPANDABLE SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, TRANSVERSE

TABLE B-29. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

30	NUMBER O	F BREAK POINTS			
	3.00	0.0030360	FREQUENCY	AND	AMPLITUDE
	15.00	0.0000414	FREQUENCY	AND	AMPLITUDE
	20.00	0.0001449	FREQUENCY	AND	AMPLITUDE
	25.00	0.0000759	FREQUENCY	AND	AMPLITUDE
	27.00	0.0001863	FREQUENCY	AND	AMPLITUDE
	29.00	0.0000621	FREQUENCY	AND	AMPLITUDE
	32.00	0.0000621	FREQUENCY	AND	AMPLITUDE
	33.00	0.0001173	FREQUENCY	AND	AMPLITUDE
	37.00	0.0000414	FREQUENCY .	AND	AMPLITUDE
	48.00	0.0000552	FREQUENCY	AND	AMPLITUDE
	66.00	0.0000069	FREQUENCY	AND	AMPLITUDE
	74.00	0.0000345	FREQUENCY	AND	AMPLITUDE
	81.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	104.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	114.00	0.0000069	FREQUENCY	AND	AMPLITUDE
	127.00	0.0000069	FREQUENCY	AND	AMPLITUDE
	140.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	148.00	0.0000069	FREQUENCY	AND	AMPLITUDE
	170.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	189.00	0.0000207	FREQUENCY	AND	AMPLITUDE
	204.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	227.00	0.0000138	FREQUENCY	AND	AMPLITUDE
	240.00	0.0016560	FREQUENCY	AND	AMPLITUDE
	258.00	0.0000069	FREQUENCY	AND	AMPLITUDE
	378.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	407.00	0.0000069	FREQUENCY		
	420.00	0.0000000	FREQUENCY		
	462.00	0.0000000	FREQUENCY		
	481.00	0.0000276	FREQUENCY		
	493.00	0.0000000	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.16

M1022/NON-EXPANDABLE SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, LONGITUDINAL

TABLE B-30. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

29	NUMBER	OF BREAK POINTS			
	3.00	0.0282906	FREQUENCY	AND	AMPLITUDE
	7.00	0.0052559	FREQUENCY	AND	AMPLITUDE
	10.00	0.0102752	FREQUENCY	AND	AMPLITUDE
	11.00	0.0107653	FREQUENCY	AND	AMPLITUDE
	15.00	0.0024505	FREQUENCY	AND	AMPLITUDE
	18.00	0.0031434	FREQUENCY	AND	AMPLITUDE
	37.00	0.0005408	FREQUENCY	AND	AMPLITUDE
	40.00	0.0007267	FREQUENCY	AND	AMPLITUDE
	54.00	0.0006084	FREQUENCY	AND	AMPLITUDE
	65.00	0.0003042	FREQUENCY	AND	AMPLITUDE
	67.00	0.0004563	FREQUENCY	AND	AMPLITUDE
	78.00	0.0001521	FREQUENCY	AND	AMPLITUDE
	81.00	0.0003211	FREQUENCY	AND	AMPLITUDE
	88.00	0.0001183	FREQUENCY	AND	AMPLITUDE
	93.00	0.0001690	FREQUENCY	AND	AMPLITUDE
	104.00	0.0001183	FREQUENCY	AND	AMPLITUDE
	108.00	0.0002366	FREQUENCY	AND	AMPLITUDE
	128.00	0.0001183	FREQUENCY	AND	AMPLITUDE
	162.00	0.0002535	FREQUENCY	AND	AMPLITUDE
	206.00	0.0000676	FREQUENCY	AND	AMPLITUDE
	211.00	0.0001014	FREQUENCY	AND	AMPLITUDE
	238.00	0.0000338	FREQUENCY	AND	AMPLITUDE
	260.00	0.0000507	FREQUENCY	AND	AMPLITUDE
	286.00	0.0000338	FREQUENCY	AND	AMPLITUDE
	302.00	0.0000507	FREQUENCY	AND	AMPLITUDE
	420.00	0.0000169	FREQUENCY	AND	AMPLITUDE
	423.00	0.0000507	FREQUENCY		AMPLITUDE
	430.00	0.0000169	FREQUENCY		AMPLITUDE
	489.00	0.0000169	FREQUENCY	AND	AMPLITUDE

M1022A1/GENERIC SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, VERTICAL

TABLE B-31. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

27	NUMBER OF	BREAK POINTS			
	3.00	0.0632840	FREQUENCY	AND	AMPLITUDE
	4.00	0.0160420	FREQUENCY	AND	AMPLITUDE
	7.00	0.0093080	FREQUENCY	AND	AMPLITUDE
	12.00	0.0135200	FREQUENCY	AND	AMPLITUDE
	18.00	0.0031720	FREQUENCY	AND	AMPLITUDE
	21.00	0.0040820	FREQUENCY	AND	AMPLITUDE
	30.00	0.0026000	FREQUENCY	AND	AMPLITUDE
	36.00	0.0010920	FREQUENCY	AND	AMPLITUDE
	44.00	0.0016380	FREQUENCY	AND	AMPLITUDE
	55.00	0.0015600	FREQUENCY	AND	AMPLITUDE
	68.00	0.0006760	FREQUENCY	AND	AMPLITUDE
	70.00	0.0002600	FREQUENCY	AND	AMPLITUDE
	78.00	0.0004160	FREQUENCY	AND	AMPLITUDE
	81.00	0.0012480	FREQUENCY	AND	AMPLITUDE
	85.00	0.0002080	FREQUENCY	AND	AMPLITUDE
	95.00	0.0003640	FREQUENCY	AND	AMPLITUDE
	104.00	0.0003120	FREQUENCY	AND	AMPLITUDE
	108.00	0.0005980	FREQUENCY	AND	AMPLITUDE
	111.00	0.0003120	FREQUENCY	AND	AMPLITUDE
	116.00	0.0008580	FREQUENCY	AND	AMPLITUDE
	123.00	0.0002080	FREQUENCY	AND	AMPLITUDE
	171.00	0.0004940	FREQUENCY	AND	AMPLITUDE
	208.00	0.0002600	FREQUENCY	AND	AMPLITUDE
	258.00	0.0003640	FREQUENCY	AND	AMPLITUDE
	330.00	0.0001560	FREQUENCY	AND	AMPLITUDE
	410.00	0.0001560	FREQUENCY	AND	AMPLITUDE
	497.00	0.0000520	FREQUENCY	AND	AMPLITUDE

M1022A1/GENERIC SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, TRANSVERSE

TABLE B-32. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

20			
28		OF BREAK POINTS	
	3.00	0.0066528	FREQUENCY AND AMPLITUDE
	6.00	0.0014364	FREQUENCY AND AMPLITUDE
	11.00	0.0027090	FREQUENCY AND AMPLITUDE
	32.00	0.0002646	FREQUENCY AND AMPLITUDE
	35.00	0.0003402	FREQUENCY AND AMPLITUDE
	40.00	0.0003150	FREQUENCY AND AMPLITUDE
	44.00	0.0002142	FREQUENCY AND AMPLITUDE
	57.00	0.0003024	FREQUENCY AND AMPLITUDE
	62.00	0.0002016	FREQUENCY AND AMPLITUDE
	67.00	0.0004914	FREQUENCY AND AMPLITUDE
	77.00	0.0001764	FREQUENCY AND AMPLITUDE
	81.00	0.0002142	FREQUENCY AND AMPLITUDE
	90.00	0.0001512	FREQUENCY AND AMPLITUDE
	99.00	0.0002016	FREQUENCY AND AMPLITUDE
	124.00	0.0001512	FREQUENCY AND AMPLITUDE
	129.00	0.0002142	FREQUENCY AND AMPLITUDE
	132.00	0.0001386	FREQUENCY AND AMPLITUDE
	159.00	0.0002142	FREQUENCY AND AMPLITUDE
	176.00	0.0003150	FREQUENCY AND AMPLITUDE
	198.00	0.0001638	FREQUENCY AND AMPLITUDE
	211.00	0.0002016	FREQUENCY AND AMPLITUDE
	221.00	0.0001386	FREQUENCY AND AMPLITUDE
	229.00	0.0001890	FREQUENCY AND AMPLITUDE
	234.00	0.0001512	FREQUENCY AND AMPLITUDE
	252.00	0.0002016	FREQUENCY AND AMPLITUDE
	281.00	0.0001008	FREQUENCY AND AMPLITUDE
	378.00	0.0002394	FREQUENCY AND AMPLITUDE
	500.00	0.0000378	FREQUENCY AND AMPLITUDE

M1022A1/GENERIC SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, LONGITUDINAL

TABLE B-33. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

29	NUMBER	OF	BREAK	POINTS				
	3.00		0.097	7364	1	FREQUENCY	AND	AMPLITUDE
	6.00		0.005	3856	1	FREQUENCY	AND	AMPLITUDE
	9.00		0.006	3342	- 1	FREQUENCY	AND	AMPLITUDE
	15.00		0.000	3162	- 1	FREQUENCY	AND	AMPLITUDE
	19.00		0.000	5814	1	FREQUENCY	AND	AMPLITUDE
	22.00		0.000	1122	1	FREQUENCY	AND	AMPLITUDE
	25.00		0.000	1836	- 1	FREQUENCY	AND	AMPLITUDE
	27.00		0.000	1020	ı	REQUENCY	AND	AMPLITUDE
	49.00		0.000	1020	ı	REQUENCY	AND	AMPLITUDE
	54.00		0.000	2958	ı	REQUENCY	AND	AMPLITUDE
	58.00		0.000	1122	ı	REQUENCY	AND	AMPLITUDE
	79.00		0.000	1224	1	REQUENCY	AND	AMPLITUDE
	95.00		0.000	1326	1	REQUENCY	AND	AMPLITUDE
	121.00		0.000	1122	F	REQUENCY	AND	AMPLITUDE
	153.00		0.000	1122	ı	REQUENCY	AND	AMPLITUDE
	157.00		0.000	2244	i	REQUENCY	AND	AMPLITUDE
	162.00		0.000	1020	•	REQUENCY	AND	AMPLITUDE
	229.00		0.000	1020	ı	REQUENCY	AND	AMPLITUDE
	238.00		0.000	2754	1	REQUENCY	AND	AMPLITUDE
	244.00		0.000	1020	1	REQUENCY	AND	AMPLITUDE
	252.00		0.000	1020	. 1	REQUENCY	AND	AMPLITUDE
	258.00		0.000	2040	ı	REQUENCY	AND	AMPLITUDE
	262.00		0.000	1020	F	REQUENCY	AND	AMPLITUDE
	268.00		0.000		F	REQUENCY	AND	AMPLITUDE
	275.00		0.000					AMPLITUDE
	284.00		0.000	–				AMPLITUDE
	307.00		0.000	– .	j	REQUENCY	AND	AMPLITUDE
	315.00		0.000					AMPLITUDE
	322.00	_	0.000	1020	F	REQUENCY	AND	AMPLITUDE
RMS	VALUE =	0.46						

M832/S280 Type III Mobility Vibration Schedule, Vertical

TABLE B-34. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

3	5 NUMBE	R OF	BREAK POINTS			
	3.00		0.0033048	FREQUENCY	AND	AMPLITUDE
	7.00		0.0011016	FREQUENCY	AND	AMPLITUDE
	10.00		0.0062856	FREQUENCY	AND	AMPLITUDE
	14.00		0.0008496	FREQUENCY	AND	AMPLITUDE
	19.00		0.0005112	FREQUENCY	AND	AMPLITUDE
	22.00		0.0001008	FREQUENCY	AND	AMPLITUDE
	25.00		0.0003744	FREQUENCY	AND	AMPLITUDE
	30.00		0.0000288	FREQUENCY	AND	AMPLITUDE
	32.00		0.0000360	FREQUENCY	AND	AMPLITUDE
	39.00		0.0000072	FREQUENCY	AND	AMPLITUDE
	42.00		0.0000360	FREQUENCY	AND	AMPLITUDE
	50.00		0.0000072	FREQUENCY	AND	AMPLITUDE
	56.00		0.0000144	FREQUENCY	AND	AMPLITUDE
	58.00		0.0000360	FREQUENCY	AND	AMPLITUDE
	69.00		0.0000072	FREQUENCY	AND	AMPLITUDE
	79.00		0.0000432	FREQUENCY	AND	AMPLITUDE
	83.00		0.0000288	FREQUENCY	AND	AMPLITUDE
	98.00		0.0000432	FREQUENCY	AND	AMPLITUDE
	108.00		0.0001224	FREQUENCY	AND	AMPLITUDE
	126.00		0.0000936	FREQUENCY	AND	AMPLITUDE
	133.00		0.0001368	FREQUENCY	AND	AMPLITUDE
	150.00		0.0000288	FREQUENCY	AND	AMPLITUDE
	157.00		0.0005184	FREQUENCY	AND	AMPLITUDE
	163.00		0.0000216	FREQUENCY	AND	AMPLITUDE
	216.00		0.0000288	FREQUENCY	AND	AMPLITUDE
	230.00		0.0000216	FREQUENCY	AND	AMPLITUDE
	238.00		0.0003096	FREQUENCY	AND	AMPLITUDE
	260.00		0.0000432	FREQUENCY		
	305.00		0.0002952	FREQUENCY		AMPLITUDE
	344.00		0.0000144	FREQUENCY .		AMPLITUDE
	413.00		0.0000216	FREQUENCY		AMPLITUDE
	437.00		0.0000216	FREQUENCY		AMPLITUDE
	462.00		0.0000144	FREQUENCY		AMPLITUDE
	473.00		0.0000360	FREQUENCY		AMPLITUDE
	497.00		0.0000144	FREQUENCY	AND	AMPLITUDE
~ `	VALUE =	0 25				

RMS VALUE = 0.25 M832/S280 TYPE III MOBILITY VIBRATION SCHEDULE, TRANSVERSE

TABLE B-35. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

34	NUMBER OF	BREAK POINTS			
	3.00	0.0045746	FREQUENCY	AND	AMPLITUDE
	7.00	0.0004450	FREQUENCY	AND	AMPLITUDE
	10.00	0.0017177	FREQUENCY	AND	AMPLITUDE
	14.00	0.0003026	FREQUENCY	AND	AMPLITUDE
	18.00	0.0004895	FREQUENCY	AND	AMPLITUDE
	22.00	0.0001068	FREQUENCY	AND	AMPLITUDE
	24.00	0.0001691	FREQUENCY	AND	AMPLITUDE
	31.00	0.0000712	FREQUENCY	AND	AMPLITUDE
	45.00	0.0002759	FREQUENCY	AND	AMPLITUDE
	48.00	0.0001691	FREQUENCY	AND	AMPLITUDE
	55.00	0.0005251	FREQUENCY	AND	AMPLITUDE
	67.00	0.0001335	FREQUENCY	AND	AMPLITUDE
	79.00	0.0002403			AMPLITUDE
	83.00	0.0001958			AMPLITUDE
	91.00	0.0004628			AMPLITUDE
	101.00	0.0002670			AMPLITUDE
	115.00	0.0004094			AMPLITUDE
	151.00	0.0004272			AMPLITUDE
	159.00	0.0015842			AMPLITUDE
	165.00	0.0002937			AMPLITUDE
	199.00	0.0002136			AMPLITUDE
	232.00	0.0004361			AMPLITUDE
	242.00	0.0017177			AMPLITUDE
	248.00	0.0005518			AMPLITUDE
	256.00	0.0010769			AMPLITUDE
	262.00	0.0004183			AMPLITUDE AMPLITUDE
	275.00 291.00	0.0010591 0.0003738			AMPLITUDE
	312.00	0.0003738			AMPLITUDE
	344.00	0.0003649			AMPLITUDE
	369.00	0.0005785			AMPLITUDE
	455.00	0.0003783			AMPLITUDE
	470.00	0.0002046			AMPLITUDE
	497.00	0.0004784	FREQUENCY		
	771100	7.0002.30			

RMS VALUE = 0.49

M832/S280 TYPE III MOBILITY VIBRATION SCHEDULE, LONGITUDINAL

TABLE B-36. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

3	1 NUMBER OF	BREAK POINTS			
	3.00	0.0958200	FREQUENCY	AND	AMPLITUDE
	6.00	0.0060000	FREQUENCY	AND	AMPLITUDE
	7.00	0.0137600	FREQUENCY	AND	AMPLITUDE
	14.00	0.0026800	FREQUENCY	AND	AMPLITUDE
	16.00	0.0036700	FREQUENCY	AND	AMPLITUDE
	20.00	0.0036300	FREQUENCY	AND	AMPLITUDE
	36.00	0.0004300	FREQUENCY	AND	AMPLITUDE
	39.00	0.0007000	FREQUENCY	AND	AMPLITUDE
	42.00	0.0003800	FREQUENCY	AND	AMPLITUDE
	53.00	0.0004000	FREQUENCY	AND	AMPLITUDE
	59.00	0.0002200	FREQUENCY	AND	AMPLITUDE
	63.00	0.0003000	FREQUENCY	AND	AMPLITUDE
	69.00	0.0001700	FREQUENCY	AND	AMPLITUDE
	73.00	0.0004400	FREQUENCY	AND	AMPLITUDE
	79.00	0.0001200	FREQUENCY	AND	AMPLITUDE
	100.00	0.0001300	FREQUENCY	AND	AMPLITUDE
	105.00	0.0008200	FREQUENCY	AND	AMPLITUDE
	109.00	0.0001200	FREQUENCY	AND	AMPLITUDE
	120.00	0.0001000	FREQUENCY	AND	AMPLITUDE
	152.00	0.0001000	FREQUENCY .	AND	AMPLITUDE
	157.00	0.0002200	FREQUENCY	AND	AMPLITUDE
	163.00	0.0001000	FREQUENCY	AND	AMPLITUDE
	229.00	0.0001000	FREQUENCY	AND	AMPLITUDE
	242.00	0.0021400	FREQUENCY	AND	AMPLITUDE
	252.00	0.0001000	FREQUENCY	AND	AMPLITUDE
	264.00	0.0001000	FREQUENCY		·
	275.00	0.0001400	FREQUENCY	AND	AMPLITUDE
	284.00	0.0001000	FREQUENCY	AND	AMPLITUDE
	307.00	0.0001000	FREQUENCY A	AND	AMPLITUDE
	315.00	0.0003600	FREQUENCY A	AND	AMPLITUDE
	322.00	0.0001100	FREQUENCY A	AND	AMPLITUDE
MC	VALUE - 0 EE	•			

RMS VALUE = 0.55
MASTER SCHEDULE (ALL SHELTERS) TYPE III MOBILITY, VERTICAL

TABLE B-37. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

31	NUMBER OF	BREAK POINTS			
	3.00	0.0239600	FREQUENCY	AND	AMPLITUDE
	7.00	0.0035800	FREQUENCY	AND	AMPLITUDE
	8.00	0.0100100	FREQUENCY	AND	AMPLITUDE
	10.00	0.0087000	FREQUENCY	AND	AMPLITUDE
	36.00	0.0004400	FREQUENCY	AND	AMPLITUDE
	50.00	0.0006300	FREQUENCY	AND	AMPLITUDE
	60.00	0.0002400	FREQUENCY	AND	AMPLITUDE
	65.00	0.0007500	FREQUENCY	AND	AMPLITUDE
	71.00	0.0001000	FREQUENCY	AND	AMPLITUDE
	81.00	0.0004600	FREQUENCY	AND	AMPLITUDE
	85.00	0.0000900	FREQUENCY	AND	AMPLITUDE
	115.00	0.0003000	FREQUENCY	AND	AMPLITUDE
	127.00	0.0001100	FREQUENCY	AND	AMPLITUDE
	135.00	0.0001900	FREQUENCY	AND	AMPLITUDE
	138.00 🕜	0.0001100	FREQUENCY	AND	AMPLITUDE
	153.00	0.0001500	FREQUENCY	AND	AMPLITUDE
	157.00	0.0007100	FREQUENCY	AND	AMPLITUDE
	166.00	0.0001800	FREQUENCY	AND	AMPLITUDE
	208.00	0.0001000	FREQUENCY	AND	AMPLITUDE
	232.00	0.0001300	FREQUENCY	AND	AMPLITUDE
	242.00	0.0013400	FREQUENCY	AND	AMPLITUDE
	252.00	0.0001400	FREQUENCY	AND	AMPLITUDE
	286.00	0.0001900	FREQUENCY	AND	AMPLITUDE
	291.00	0.0001200	FREQUENCY	AND	AMPLITUDE
	302.00	0.0003900	FREQUENCY	AND	AMPLITUDE
	333.00	0.0000600	FREQUENCY	AND	AMPLITUDE
	352.00	0.0000600	FREQUENCY	AND	AMPLITUDE
	364.00	0.0000800	FREQUENCY	AND	AMPLITUDE
	375.00	0.0000600	FREQUENCY	AND	AMPLITUDE
	420.00	0.0000600	FREQUENCY	AND	AMPLITUDE
	497.00	0.0000200	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.46

MASTER SCHEDULE (ALL SHELTERS) TYPE III MOBILITY, TRANSVERSE

TABLE B-38. SHELTER INPUT VIBRATION SCHEDULE BREAKPOINTS

3	5 NUMBE	R OF	BREAK POIN	TS			
	3.00	ı	0.0055300		FREQUENCY	AND	AMPLITUDE
	4.00		0.0049200		FREQUENCY	AND	AMPLITUDE
•	6.00		0.0013400		FREQUENCY	AND	AMPLITUDE
	8.00		0.0033500		FREQUENCY	AND	AMPLITUDE
	14.00		0.0018400		FREQUENCY	AND	AMPLITUDE
	15.00		0.0025300		FREQUENCY	AND	AMPLITUDE
	16.00		0.0025900		FREQUENCY	AND	AMPLITUDE
	24.00		0.0003500		FREQUENCY	AND	AMPLITUDE
	27.00		0.0005200		FREQUENCY	AND	AMPLITUDE
	30.00		0.0004700		FREQUENCY	AND	AMPLITUDE
	33.00		0.0002500		FREQUENCY	AND	AMPLITUDE
	43.00		0.0002400		FREQUENCY	AND	AMPLITUDE
	45.00		0.0003100		FREQUENCY	AND	AMPLITUDE
	48.00		0.0002000		FREQUENCY	AND	AMPLITUDE
	54.00		0.0005900		FREQUENCY	AND	AMPLITUDE
	62.00		0.0002500		FREQUENCY	AND	AMPLITUDE
	65.00		0.0005300		FREQUENCY	AND	AMPLITUDE
	73.00		0.0001600		FREQUENCY	AND	AMPLITUDE
	90.00		0.0005100		FREQUENCY	AND	AMPLITUDE
	102.00		0.0002800		FREQUENCY	AND	AMPLITUDE
	108.00		0.0004500		FREQUENCY	AND	AMPLITUDE
	152.00		0.0005000		FREQUENCY	AND	AMPLITUDE
	157.00		0.0018200		FREQUENCY	AND	AMPLITUDE
	166.00		0.0003100		FREQUENCY		AMPLITUDE
	229.00		0.0004700		FREQUENCY		AMPLITUDE
	246.00		0.0076700		FREQUENCY	•	AMPLITUDE
	262.00		0.0004900		FREQUENCY		AMPLITUDE
	277.00		0.0012500		FREQUENCY		AMPLITUDE
	288.00		0.0004200		FREQUENCY		AMPLITUDE
	312.00		0.0016200		FREQUENCY		AMPLITUDE
	352.00		0.0004100		FREQUENCY		AMPLITUDE
	372.00		0.0006600		FREQUENCY		AMPLITUDE
	455.00		0.0002900		FREQUENCY		AMPLITUDE
	473.00		0.0005700		FREQUENCY		AMPLITUDE
	500.00		0.0002200		FREQUENCY	AND	AMPLITUDE
15	VALUE =	0.61					

MASTER SCHEDULE (ALL SHELTERS) TYPE III MOBILITY, LONGITUDINAL

TABLE B-39. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

42	NUMBER	OF	BREAK POINTS			
	3.00		0.0375150	FREQUENCY	AND	AMPLITUDE
	4.00		0.0279014	FREQUENCY	AND	AMPLITUDE
	7.00		0.0023790	FREQUENCY	AND	AMPLITUDE
	10.00		0.0029524	FREQUENCY	AND	AMPLITUDE
	13.00		0.0017446	FREQUENCY	AND	AMPLITUDE
	19.00		0.0029158	FREQUENCY	AND	AMPLITUDE
	21.00		0.0014152	FREQUENCY	AND	AMPLITUDE
	24.00		0.0018544	FREQUENCY	AND	AMPLITUDE
	27.00		0.0004880	FREQUENCY	AND	AMPLITUDE
	31.00		0.0016836	FREQUENCY	AND	AMPLITUDE
	34.00		0.0003538	FREQUENCY	AND	AMPLITUDE
	40.00		0.0022692	FREQUENCY	AND	AMPLITUDE
	42.00		0.0003904	FREQUENCY	AND	AMPLITUDE
	45.00		0.0008052	FREQUENCY	AND	AMPLITUDE
	48.00		0.0003782	FREQUENCY	AND	AMPLITUDE
	53.00		0.0008784	FREQUENCY	AND	AMPLITUDE
	59.00		0.0003050	FREQUENCY	AND	AMPLITUDE
	65.00		0.0009516	FREQUENCY	AND	AMPLITUDE
	73.00		0.0000610	FREQUENCY	AND	AMPLITUDE
	83.00		0.0003050	FREQUENCY	AND	AMPLITUDE
	86.00		0.0000610	FREQUENCY	AND	AMPLITUDE
	90.00		0.0001098	FREQUENCY	AND	AMPLITUDE
	97.00		0.0000488			AMPLITUDE
	106.00		0.0004758			AMPLITUDE
	111.00		0.0001098			AMPLITUDE
	121.00		0.0003172			AMPLITUDE
	146.00		0.0000366			AMPLITUDE
	162.00		0.0000610			AMPLITUDE
	181.00		0.0000366			AMPLITUDE
	187.00		0.0000610			AMPLITUDE
	208.00		0.0000488			AMPLITUDE
	211.00		0.0000976			AMPLITUDE
	216.00		0.0000488			AMPLITUDE
	252.00		0.0000610 0.0001098			AMPLITUDE
						AMPLITUDE
	281.00 317.00		0.0000488 0.0000854			AMPLITUDE AMPLITUDE
	364.00		0.0000854			AMPLITUDE
	378.00		0.0000244			AMPLITUDE
	397.00		0.0000488			AMPLITUDE
	417.00		0.0000122			AMPLITUDE
	417.00		0.0002928			AMPLITUDE
	421.00		0.0000122	FREWUENCE	MNU	MULTIIONE

RMS VALUE = 0.43

M923/S280 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, VERTICAL

TABLE B-40. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

4	O NUMBER	OF BREAK POINTS			
	3.00	0.0065436	FREQUENCY	AND	AMPLITUDE
	6.00	0.0015162	FREQUENCY	AND	AMPLITUDE
	7.00	0.0020292	FREQUENCY	AND	AMPLITUDE
	8.00	0.0052554	FREQUENCY	AND	AMPLITUDE
	9.00	0.0044346	FREQUENCY	AND	AMPLITUDE
	11.00	0.0007752	FREQUENCY	AND	AMPLITUDE
	14.00	0.0006840	FREQUENCY	AND	AMPLITUDE
	19.00	0.0010602	FREQUENCY	AND	AMPLITUDE
	22.00	0.0007182	FREQUENCY	AND	AMPLITUDE
	24.00	0.0010032	FREQUENCY	AND	AMPLITUDE
	42.00	0.0001026	FREQUENCY	AND	AMPLITUDE
	47.00	0.0003534	FREQUENCY	AND	AMPLITUDE
	57.00	0.0001026	FREQUENCY	AND	AMPLITUDE
	66.00	0.0003762	FREQUENCY	AND	AMPLITUDE
	70.00	0.0000114	FREQUENCY		
	78.00	0.0000114	FREQUENCY		
	85.00	0.0000114	FREQUENCY		
	91.00	0.0000228	FREQUENCY	AND	AMPLITUDE
	97.00	0.0000114	FREQUENCY	AND	AMPLITUDE
	106.00	0.0000570	FREQUENCY	AND	AMPLITUDE
	109.00	0.0000114	FREQUENCY	AND	AMPLITUDE
	121.00	0.0000228	FREQUENCY	AND	AMPLITUDE
	147.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	157.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	180.00	0.0000000	FREQUENCY A	AND	AMPLITUDE
	195.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	206.00	0.0000000	FREQUENCY /	AND	AMPLITUDE
	213.00	0.0000114	FREQUENCY /	AND	AMPLITUDE
	218.00	0.0000000	FREQUENCY /		
	244.00	0.0000000	FREQUENCY /	AND	AMPLITUDE
	248.00	0.0000114	FREQUENCY /		
	254.00	0.0000000	FREQUENCY A	AND	AMPLITUDE
	268.00	0.0000000	FREQUENCY A	AND	AMPLITUDE
	298.00	0.0000000	FREQUENCY A		
	352.00	0.0000000	FREQUENCY A	UND	AMPLITUDE
	369.00	0.0000114	FREQUENCY A		
	400.00	0.0000114	FREQUENCY A		
	417.00	0.0000570	FREQUENCY A		
	437.00	0.0000000	FREQUENCY A		
	481.00	0.0000114	FREQUENCY A	ND	AMPLITUDE
	VALUE - 0				

RMS VALUE = 0.23

M923/S280 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, TRANSVERSE

TABLE B-41. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

43	NUMBER	OF BREAK POINTS			
73	3.00	0.0013816	FREQUENCY	AND	AMPLITUDE
	4.00	0.0015664	FREQUENCY		
	6.00	0.0003168	FREQUENCY	AND	AMPLITUDE
	7.00	0.0002816	FREQUENCY		
	8.00	0.0005192	FREQUENCY		
	9.00	0.0004840	FREQUENCY		
	11.00	0.0001936	FREQUENCY	AND	AMPLITUDE
	16.00	0.0006072			AMPLITUDE
	20.00	0.0004400	FREQUENCY	AND	AMPLITUDE
	22.00	0.0002376			AMPLITUDE
	26.00	0.0005280			AMPLITUDE
	30.00	0.0004840	FREQUENCY	AND	AMPLITUDE
	37.00	0.0000968			AMPLITUDE
	38.00	0.0001232	FREQUENCY	AND	AMPLITUDE
	43.00	0.0000264	FREQUENCY	AND	AMPLITUDE
	49.00	0.0001672	FREQUENCY	AND	AMPLITUDE
	53.00	0.0001584	FREQUENCY	AND	AMPLITUDE
	58.00	0.0000616	FREQUENCY	AND	AMPLITUDE
	64.00	0.0003432	FREQUENCY	AND	AMPLITUDE
	70.00	0.0000440	FREQUENCY	AND	AMPLITUDE
	86.00	0.000088	FREQUENCY	AND	AMPLITUDE
	90.00	0.0000176	FREQUENCY	AND	AMPLITUDE
	99.00	0.0000088	FREQUENCY	AND	AMPLITUDE
	107.00	0.0001232	FREQUENCY	AND	AMPL I TUDE
	121.00	0.000088	FREQUENCY	AND	AMPLITUDE
	127.00	0.0000176	FREQUENCY	AND	AMPLITUDE
	134.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	152.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	171.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	198.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	211.00	0.0000088	FREQUENCY	AND	AMPLITUDE
	223.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	238.00	0.000000	FREQUENCY	AND	AMPLITUDE
	244.00	0.0000000			AMPLITUDE
	264.00	0.000000		•	AMPLITUDE
	273.00	0.000000			AMPLITUDE
	298.00	0.000000			AMPLITUDE
	325.00	0.000000			AMPLITUDE
	366.00	0.0000000			AMPLITUDE
	427.00	0.0000264			AMPLITUDE
	437.00	0.0000000			AMPLITUDE
	462.00	0.0000088			AMPLITUDE
DMO ::	493.00	0.0000000	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.15

M923/S280 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, LONGITUDINAL

TABLE B-42. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

17	NUMBER OF	BREAK POINTS	
	3.00	0.0090252	FREQUENCY AND AMPLITUDE
	5.00	0.0016744	FREQUENCY AND AMPLITUDE
	7.00	0.0071392	FREQUENCY AND AMPLITUDE
	9.00	0.0026404	FREQUENCY AND AMPLITUDE
	11.00	0.0023828	FREQUENCY AND AMPLITUDE
	12.00	0.0028060	FREQUENCY AND AMPLITUDE
	20.00	0.0004140	FREQUENCY AND AMPLITUDE
	24.00	0.0011684	FREQUENCY AND AMPLITUDE
	36.00	0.0000460	FREQUENCY AND AMPLITUDE
	38.00	0.0000552	FREQUENCY AND AMPLITUDE
	55.00	0.0000092	FREQUENCY AND AMPLITUDE
	288.00	0.0000092	FREQUENCY AND AMPLITUDE
	305.00	0.0000368	FREQUENCY AND AMPLITUDE
	338.00	0.0000644	FREQUENCY AND AMPLITUDE
	352.00	0.0000276	FREQUENCY AND AMPLITUDE
	384.00	0.0001564	FREQUENCY AND AMPLITUDE
	434.00	0.0000092	FREQUENCY AND AMPLITUDE

RMS VALUE = 0.25

HMMWV/S250 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, VERTICAL

TABLE B-43. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

32	NUMBER	OF	BREAK POINT	rs				
	3.00		0.0046375	FREQU	ENCY A	IMA DI	PLITUD	Œ
	5.00		0.0003875	FREQU	ENCY A	ND AM	>LITUD	Œ
	7.00		0.0003750	FREQU	ENCY A	ND AM	>LITUD	Œ
	10.00		0.0038500	FREQU	ENCY A	IMA DI	PLITUD	Œ
	13.00		0.0017625	FREQU	ENCY A	ND AM	PLITUD	Œ
	15.00		0.0024875	FREQU	ENCY A	ND AMI	PLITUD	E
	17.00		0.0012500	FREQU	ENCY A	IMA DI	PLITUD	Œ
	20.00		0.0012750	FREQU	ENCY A	ND AM	PLITUD	E
	27.00		0.0001625	FREQU	ENCY A	ND AMI	PLITUD	Œ
	29.00		0.0002000	FREQU	ENCY A	IMA DI	PLITUD	ÞΕ
	38.00		0.0000250	FREQU	ENCY A	ND AM	PLITUD	Œ
	43.00		0.0000375	FREQU	ENCY A	ND AM	PLITUD)E
	50.00		0.0000125	FREQU	ENCY A	ND AM	PLITUD	Œ
	58.00		0.0000125	FREQU	ENCY A	ND AMI	PLITUD)E
	67.00		0.0000000	FREQU	ENCY A	IMA DI	PLITUD	ÞΕ
	71.00		0.0000000	FREQU	ENCY A	ND AMI	PLITUD)E
	73.00		0.0000000	FREQU	ENCY A	ND AMI	PL I TUD)E
	75.00		0.0000000	FREQU	ENCY A	IMA DI	PL I TUD	Œ
	83.00		0.0000000	FREQU	ENCY A	ND AM	2L I TUD	ÞΕ
	90.00		0.0000000	FREQU	ENCY A	ND AMI	PL I TUD	ÞΕ
	94.00		0.0000000	FREQU	ENCY A	MA DI	PLITUD	ÞΕ
	106.00		0.0000000	FREQU	ENCY A	IMA DI	PLITUD	ŧΕ
	110.00		0.0000000	FREQU	ENCY A	ND AM	PLITUD)E
	113.00		0.0000000	FREQU	ENCY A	ND AM	PLITUD	ÞΕ
	119.00		0.0000000		IENCY A			_
	124.00		0.0000000	FREQU	ENCY A	ND AMI	PLITUD	ÞΕ
	170.00		0.0000000	FREQU	ENCY A	ND AMI	>LITUD	Œ
	178.00		0.0000000	,	IENCY A			_
	181.00		0.0000000		ENCY A			_
	381.00		0.0000000		ENCY A	ND AMI	PLITUD	Œ
	400.00		0.0000000		ENCY A			_
	420.00		0.0000000	FREQU	IENCY A	ND AMI	PLITUD	Œ
RMS VALU	_	0.19						
HMMWV/S2	250 TYPE	111	MOBILITY '	VIBRATION	SCHEDU	LE, FI	LOOR,	TR

HMMWV/S250 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, TRANSVERSE

TABLE B-44. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

38	NUMBER C	F BREAK POINTS			
	3.00	0.0000432	FREQUENCY	AND	AMPLITUDE
	4.00	0.0000576	FREQUENCY	AND	AMPLITUDE
	5.00	0.0000384	FREQUENCY	AND	AMPLITUDE
	7.00	0.0002256	FREQUENCY	AND	AMPLITUDE
	9.00	0.0001152	FREQUENCY	AND	AMPLITUDE
	12.00	0.0006144	FREQUENCY	AND	AMPLITUDE
	13.00	0.0006864	FREQUENCY	AND	AMPLITUDE
	14.00	0.0004512	FREQUENCY	AND	AMPLITUDE
	16.00	0.0006144	FREQUENCY	AND	AMPLITUDE
	26.00	0.0000336	FREQUENCY	AND	AMPLITUDE
	30.00	0.0000336	FREQUENCY	AND	AMPLITUDE
	35.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	38.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	43.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	46.00	0.0000144	FREQUENCY	AND	AMPLITUDE
	50.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	52.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	70.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	73.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	83.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	107.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	109.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	120.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	131.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	134.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	140.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	173.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	176.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	180.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	216.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	220.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	223.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	277.00	0.0000000	FREQUENCY	AND	AMPLITUDE
	341.00	0.0000048	FREQUENCY		AMPLITUDE
	358.00	0.0000048	FREQUENCY		AMPLITUDE
	381.00	0.0000240	FREQUENCY		AMPLITUDE
	427.00	0.0000048	FREQUENCY		AMPLITUDE
	466.00	0.0000096	FREQUENCY	AND	AMPLITUDE

HMMWV/S250 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, LONGITUDINAL

RMS VALUE = 0.09

TABLE B-45. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

36	NUMBER	OF BREAK POINTS			
	3.00	0.0141301	FREQUENCY	AND	AMPLITUDE
	5.00	0.0038597	FREQUENCY	AND	AMPLITUDE
	7.00	0.0118573	FREQUENCY	AND	AMPLITUDE
	9.00	0.0040921	FREQUENCY	AND	AMPLITUDE
	11.00	0.0042381	FREQUENCY	AND	AMPLITUDE
	14.00	0.0006683	FREQUENCY	AND	AMPLITUDE
	16.00	0.0020291	FREQUENCY	AND	AMPLITUDE
	19.00	0.0008248	FREQUENCY	AND	AMPLITUDE
	20.00	0.0008951	FREQUENCY	AND	AMPLITUDE
	29.00	0.0002563	FREQUENCY	AND	AMPLITUDE
	32.00	0.0007338	FREQUENCY	AND	AMPLITUDE
	46.00	0.0000637	FREQUENCY	AND	AMPLITUDE
	49.00	0.0000948	FREQUENCY	AND	AMPLITUDE
	52.00	0.0000395	FREQUENCY	AND	AMPLITUDE
	58.00	0.0000493	FREQUENCY	AND	AMPLITUDE
	62.00	0.0000834	FREQUENCY	AND	AMPLITUDE
	68.00	0.0000193	FREQUENCY	AND	AMPLITUDE
	83.00	0.0000189	FREQUENCY	AND	AMPLITUDE
	85.00	0.0000248	FREQUENCY	AND	AMPLITUDE
	86.00	0.0000189	FREQUENCY	AND	AMPLITUDE
	150.00	0.0000189	FREQUENCY	AND	AMPLITUDE
	153.00	0.0000280	FREQUENCY	AND	AMPLITUDE
	154.00	0.0000184	FREQUENCY	AND	AMPLITUDE
	169.00	0.0000182	FREQUENCY	AND	AMPLITUDE
	177.00	0.0000581	FREQUENCY	AND	AMPLITUDE
	187.00	0.0000309	FREQUENCY	AND	AMPLITUDE
	198.00	0.0001411	FREQUENCY	AND	AMPLITUDE
	213.00	0.0000184	FREQUENCY	AND	AMPLITUDE
	227.00	0.0000187	FREQUENCY		AMPLITUDE
	238.00	0.0000593	FREQUENCY	AND	AMPLITUDE
	260.00	0.0000233	FREQUENCY	AND	AMPLITUDE
	284.00	0.0001054	FREQUENCY		AMPLITUDE
	305.00	0.0000184	FREQUENCY		AMPLITUDE
	352.00	0.0000182	FREQUENCY	AND	AMPLITUDE
	381.00	0.0000291			AMPLITUDE
	407.00	0.0000184	FREQUENCY	AND	AMPLITUDE

M1097 HHV/S787 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, VERTICAL

RMS VALUE = 0.31

TABLE B-46. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

4	2 NUMBE	R OF	BREAK POINTS	3		
	3.00)	0.0066115	FREQUENCY	AND	AMPLITUDE
	5.00)	0.0008060			AMPLITUDE
	7.00)	0.0010185	FREQUENCY	AND	AMPLITUDE
	9.00)	0.0029855	FREQUENCY	AND	AMPLITUDE
	12.00	}	0.0006897	FREQUENCY	AND	AMPLITUDE
	14.00)	0.0010185	FREQUENCY	AND	AMPLITUDE
	16.00)	0.0024379	FREQUENCY	AND	AMPLITUDE
	19.00)	0.0014805			AMPLITUDE
	24.00)	0.0013693	FREQUENCY	AND	AMPLITUDE
	27.00)	0.0003698	FREQUENCY	AND	AMPLITUDE
	31.00)	0.0004745	FREQUENCY	AND	AMPLITUDE
	33.00		0.0008060	FREQUENCY	AND	AMPLITUDE
	50.00		0.0000174	FREQUENCY	AND	AMPLITUDE
	54.00		0.0000172	FREQUENCY	AND	AMPLITUDE
	60.00		0.0000479			AMPLITUDE
	80.00		0.0000052	FREQUENCY	AND	AMPLITUDE
	85.00		0.0000116	FREQUENCY	AND	AMPLITUDE
	99.00		0.0000026	FREQUENCY	AND	AMPLITUDE
	108.00		0.0000026	FREQUENCY	AND	AMPLITUDE
	109.00		0.0000045	FREQUENCY	AND	AMPLITUDE
	112.00		0.0000022	FREQUENCY	AND	AMPLITUDE
	121.00		0.0000034	FREQUENCY	AND	AMPLITUDE
	129.00		0.0000034	FREQUENCY	AND	AMPLITUDE
	133.00		0.0000024	FREQUENCY	AND	AMPLITUDE
	137.00		0.0000041	FREQUENCY	AND	AMPLITUDE
	146.00		0.0000022	FREQUENCY	AND	AMPLITUDE
	153.00		0.0000073			AMPLITUDE
	162.00		0.0000024		-	AMPLITUDE
	178.00		0.0000282			AMPLITUDE
	186.00		0.0009075			AMPLITUDE
	195.00		0.0000404	FREQUENCY		
	211.00		0.0000022	FREQUENCY		
	229.00		0.0000022	FREQUENCY		
	242.00		0.0000095	FREQUENCY		
	262.00		0.0000028	FREQUENCY		_
	279.00		0.0000185	FREQUENCY		
	295.00		0.0000024	FREQUENCY		
	310.00		0.0000039	FREQUENCY		
	315.00		0.0000024	FREQUENCY		
	366.00		0.0000024	FREQUENCY		
	410.00		0.0000120	FREQUENCY		
ıc	462.00 VALUE =	0.22	0.0000022	FREQUENCY	AND	AMPLITUDE
13	VALUE =	4.66				

KMS VALUE = 0.22

M1097 HHV/S787 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, TRANSVERSE

TABLE B-47. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

35	NUMBER OF	BREAK POINTS			
	3.00	0.0004068	FREQUENCY	AND	AMPLITUDE
	4.00	0.0002548	FREQUENCY	AND	AMPLITUDE
	7.00	0.0033888	FREQUENCY	AND	AMPLITUDE
	9.00	0.0006911	FREQUENCY	AND	AMPLITUDE
	12.00	0.0005643	FREQUENCY	AND	AMPLITUDE
	16.00	0.0017068	FREQUENCY	AND	AMPLITUDE
	30.00	0.0000357	FREQUENCY	AND	AMPLITUDE
	37.00	0.0000411	FREQUENCY	AND	AMPLITUDE
	51.00	0.0000115	FREQUENCY	AND	AMPLITUDE
	61.00	0.0000138	FREQUENCY	AND	AMPLITUDE
	70.00	0.0000030	FREQUENCY	AND	AMPLITUDE
	72.00	0.0000076	FREQUENCY	AND	AMPLITUDE
	79.00	0.0000017	FREQUENCY	AND	AMPLITUDE
	85.00	0.0000040	FREQUENCY	AND	AMPLITUDE
	88.00	80000008	FREQUENCY	AND	AMPLITUDE
	107.00	0.0000008	FREQUENCY	AND	AMPLITUDE
	109.00	0.0000013	FREQUENCY	AND	AMPLITUDE
	112.00	0.0000008	FREQUENCY	AND	AMPLITUDE
	120.00	0.0000008	FREQUENCY	AND	AMPLITUDE
	138.00	0.0000035	FREQUENCY	AND	AMPLITUDE
	144.00	0.0000013			AMPLITUDE
	154.00	0.0000032	FREQUENCY	AND	AMPLITUDE
	162.00	0.0000020			AMPLITUDE
	178.00	0.0000078			AMPLITUDE
	189.00	0.0000020	FREQUENCY	AND	
	204.00	0.0000149	FREQUENCY		AMPLITUDE
	208.00	0.0000008	FREQUENCY		AMPLITUDE
	266.00	0.0000008	FREQUENCY		AMPLITUDE
	275.00	0.0000028	FREQUENCY		AMPLITUDE
	288.00	80000008			AMPLITUDE
	328.00	0.0000008			AMPLITUDE
	413.00	0.000056			AMPLITUDE
	444.00	0.0000023			AMPLITUDE
	485.00	0.0000134			AMPLITUDE
	497.00	0.0000073	FREQUENCY	AND	AMPLITUDE

KMS VALUE = U.15

M1097 HHV/S787 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, LONGITUDINAL

TABLE B-48. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

36	NUMBER (OF BREAK POINTS			
	3.00	0.0065050	FREQUENCY	AND	AMPLITUDE
	7.00	0.0016760	FREQUENCY	AND	AMPLITUDE
	11.00	0.0017768	FREQUENCY	AND	AMPLITUDE
	13.00	0.0091304	FREQUENCY	AND	AMPLITUDE
	15.00	0.0004578	FREQUENCY	AND	AMPLITUDE
	19.00	0.0001265	FREQUENCY	AND	AMPLITUDE
	21.00	0.0001473	FREQUENCY	AND	AMPLITUDE
	26.00	0.0000658	FREQUENCY	AND	AMPLITUDE
	27.00	0.0000850	FREQUENCY	AND	AMPLITUDE
	32.00	0.0000739	FREQUENCY	AND	AMPLITUDE
	33.00	0.0001637	FREQUENCY	AND	AMPLITUDE
	37.00	0.0000371	FREQUENCY	AND	AMPLITUDE
	40.00	0.0000571	FREQUENCY	AND	AMPLITUDE
	43.00	0.0000200	FREQUENCY	AND	AMPLITUDE
	46.00	0.0000222	FREQUENCY	AND	AMPLITUDE
	50.00	0.0000095	FREQUENCY	AND	AMPLITUDE
	54.00	0.0000126	FREQUENCY	AND	AMPLITUDE
	58.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	65.00	0.0000096	FREQUENCY	AND	AMPLITUDE
	75.00	0.0000153	FREQUENCY	AND	AMPLITUDE
	77.00	0.0000095	FREQUENCY		
	81.00	0.0000126	FREQUENCY	AND	AMPLITUDE
	85.00	0.0000105	FREQUENCY	AND	AMPLITUDE
	89.00	0.0000166	FREQUENCY		
	96.00	0.0000131	FREQUENCY		
	121.00	0.0000756	FREQUENCY		_
	150.00	0.0000173	FREQUENCY		
	192.00	0.0001099	FREQUENCY		
	198.00	0.0000697	FREQUENCY		
	206.00	0.0001037	FREQUENCY		_
	221.00	0.0000437	FREQUENCY		
	242.00	0.0008118	FREQUENCY		
	258.00	0.0000244	FREQUENCY		AMPLITUDE
	307.00	0.0000095	FREQUENCY		
	315.00	0.0000132	FREQUENCY		
	336.00	0.0000096	FREQUENCY	ANU	AMPLITUDE

RMS VALUE = 0.25

M1022/EXPANDABLE SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, VERTICAL

TABLE B-49. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

41	NUMBER	QF :	BREAK POINTS				
7.	3.00	•	0.0056738		FREQUENCY	AND	AMPLITUDE
	12.00		0.0001701				AMPLITUDE
	13.00		0.0003708				AMPLITUDE
	16.00		0.0000646				AMPLITUDE
	27.00		0.0005226				AMPLITUDE
	29.00		0.0001782				AMPLITUDE
	32.00		0.0000883				AMPLITUDE
	34.00		0.0001285				AMPLITUDE
	35.00		0.0000646		FREQUENCY	AND	AMPLITUDE
	39.00		0.0000628				AMPLITUDE
	41.00		0.0001411				AMPLITUDE
	42.00		0.0000870		FREQUENCY	AND	AMPLITUDE
	47.00		0.0001810	•	FREQUENCY	AND	AMPLITUDE
	50.00		0.0000571		FREQUENCY	AND	AMPLITUDE
	55.00		0.0000971		FREQUENCY	AND	AMPLITUDE
	66.00		0.0000118		FREQUENCY	AND	AMPLITUDE
-	76.00		0.0000628		FREQUENCY	AND	AMPLITUDE
	82.00		0.0000073		FREQUENCY	AND	AMPLITUDE
	90.00		0.0000047		FREQUENCY	AND	AMPLITUDE
	95.00		0.0000070		FREQUENCY	AND	AMPLITUDE
	98.00		0.0000043		FREQUENCY	AND	AMPLITUDE
	104.00		0.0000052		FREQUENCY	AND	AMPLITUDE
	108.00		0.0000097		FREQUENCY	AND	AMPLITUDE
	116.00		0.0000060		FREQUENCY	AND	AMPLITUDE
	121.00		0.0000148		FREQUENCY	AND	AMPLITUDE
	124.00		0.0000061		FREQUENCY	AND	AMPLITUDE
	135.00		0.0000102		FREQUENCY	AND	AMPLITUDE
	139.00		0.0000040		FREQUENCY	AND	AMPLITUDE
	151.00		0.0000092		FREQUENCY	AND	AMPLITUDE
	159.00		0.0000027		FREQUENCY	AND	AMPLITUDE
	177.00		0.0000017		-		AMPLITUDE
	187.00		0.0000064		FREQUENCY		
	209.00		0.0000016				AMPLITUDE
	242.00		0.0001188				AMPLITUDE
	270.00		0.0000024				AMPLITUDE
	286.00		0.0000112				AMPLITUDE
	298.00		0.0000023	•			AMPLITUDE
	312.00		0.0000053				AMPLITUDE
	322.00		0.0000015				AMPLITUDE
	372.00		0.0000032				AMPLITUDE
BMC 1/4:::	493.00	n 45	0.0000019		PREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.15
M1022/EXPANDABLE SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, TRANSVERSE

TABLE B-50. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

40	NUMBER	OF	BREAK POINTS				
	3.00		0.0022537	•	FREQUENCY	AND	AMPLITUDE
	4.00		0.0030306		FREQUENCY	AND	AMPLITUDE
	7.00		0.0005541		FREQUENCY	AND	AMPLITUDE
	9.00		0.0008984		FREQUENCY	AND	AMPLITUDE
	11.00		0.0007568		FREQUENCY	AND	AMPLITUDE
	16.00		0.0000880		FREQUENCY	AND	AMPLITUDE
	18.00		0.0001342		FREQUENCY	AND	AMPLITUDE
	24.00		0.0000730		FREQUENCY	AND	AMPLITUDE
	27.00		0.0000937		FREQUENCY	AND	AMPLITUDE
	32.00		0.0000398		FREQUENCY	AND	AMPLITUDE
	34.00		0.0000686		FREQUENCY	AND	AMPLITUDE
	36.00		0.0000502		FREQUENCY	AND	AMPLITUDE
	40.00		0.0000708		FREQUENCY	AND	AMPLITUDE
	44.00		0.0000300		FREQUENCY	AND	AMPLITUDE
	47.00		0.0000398	<i>:</i>	FREQUENCY	AND	AMPLITUDE
	52.00		0.0000185		FREQUENCY	AND	AMPLITUDE
	54.00		0.0000249		FREQUENCY	AND	AMPLITUDE
	63.00		0.0000188		FREQUENCY	AND	AMPLITUDE
	70.00		0.0000080		FREQUENCY	AND	AMPLITUDE
	76.00		0.0000154		FREQUENCY	AND	AMPLITUDE
	89.00		0.0000012		FREQUENCY	AND	AMPLITUDE
	98.00		0.0000012		FREQUENCY	AND	AMPLITUDE
	134.00		0.0000024		FREQUENCY	AND	AMPLITUDE
	148.00		0.0000009				AMPLITUDE
	177.00		0.0000009				AMPLITUDE
	189.00		0.0000040				AMPLITUDE
	198.00		0.0000011				AMPLITUDE
	220.00		0.0000020				AMPLITUDE
	244.00		0.0004596		FREQUENCY		
	270.00		0.0000029		FREQUENCY		
	295.00		0.0000012		FREQUENCY		
	315.00		0.0000048		FREQUENCY		
	328.00		0.0000010		FREQUENCY		
	338.00		0.0000023		FREQUENCY		
	352.00		0.0000012		FREQUENCY		
	413.00		0.0000022		FREQUENCY		
	444.00		0.0000069		FREQUENCY		
	470.00		0.0000048		FREQUENCY		
	481.00		0.0000081		FREQUENCY		
	497.00		0.0000016		FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.15

M1022/EXPANDABLE SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, LONGITUDINAL

TABLE B-51. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

40	NUMBER O	F BREAK POINTS			
	3.00	0.0049586	FREQUENCY	AND	AMPLITUDE
	5.00	0.0030584	FREQUENCY	AND	AMPLITUDE
	7.00	0.0015646	FREQUENCY	AND	AMPLITUDE
	9.00	0.0013387	FREQUENCY	AND	AMPLITUDE
	11.00	0.0016652	FREQUENCY	AND	AMPLITUDE
	12.00	0.0012775	FREQUENCY	AND	AMPLITUDE
	13.00	0.0021039	FREQUENCY	AND	AMPLITUDE
	15.00	0.0011277	FREQUENCY	AND	AMPLITUDE
	20.00	0.0024973	FREQUENCY	AND	AMPL I TUDE
	25.00	0.0009501	FREQUENCY	AND	AMPLITUDE
	27.00	0.0036875	FREQUENCY	AND	AMPLITUDE
	32.00	0.0001233	FREQUENCY	AND	AMPLITUDE
	34.00	0.0002646	FREQUENCY	AND	AMPLITUDE
	38.00	0.0000462	FREQUENCY	AND	AMPLITUDE
	40.00	0.0000682	FREQUENCY	AND	AMPLITUDE
	45.00	0.0000244	FREQUENCY	AND	AMPLITUDE
	47.00	0.0000414	FREQUENCY	AND	AMPLITUDE
	50.00	0.0000145	FREQUENCY	AND	AMPLITUDE
	54.00	0.0000574	FREQUENCY	AND	AMPLITUDE
	57.00	0.0000098	FREQUENCY	AND	AMPL I TUDE
	61.00	0.0000134	FREQUENCY	AND	AMPLITUDE
	69.00	0.0000026	FREQUENCY	AND	AMPL I TUDE
	74.00	0.0000124	FREQUENCY	AND	AMPLITUDE
	81.00	0.0000010			AMPLITUDE
	183.00	0.0000010	FREQUENCY	AND	AMPLITUDE
	189.00	0.0000029			AMPLITUDE
	198.00	0.0000010	FREQUENCY		
	209.00	0.0000010			AMPLITUDE
	240.00	0.0002373			AMPLITUDE
	256.00	0.0000031	FREQUENCY		
	270.00	0.0000259	FREQUENCY		AMPLITUDE
	288.00	0.0000029	FREQUENCY		
	307.00	0.0000103	FREQUENCY	•	
	333.00	0.0000010	FREQUENCY		AMPLITUDE
	378.00	0.0000070	FREQUENCY		
	407.00	0.0000075	FREQUENCY		AMPLITUDE
	427.00	0.0000484	FREQUENCY		
	466.00	0,0000068	FREQUENCY		
	485.00	0.0000715			AMPLITUDE
	493.00	0.0000068	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.25

M1022/NON-EXPANDABLE SHELTER TYPE III MOBILITY VIBR SCHEDULE, FLOOR, VERTICAL

TABLE B-52. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

34	NUMBER	OF	BREAK POINT	\$			
	3.00		0.0048287		FREQUENCY	AND	AMPLITUDE
	8.00		0.0001220		FREQUENCY	AND	AMPLITUDE
	12.00		0.0000624		FREQUENCY	AND	AMPLITUDE
	13.00		0.0000907	•	FREQUENCY	AND	AMPLITUDE
	15.00		0.0000403		FREQUENCY	AND	AMPLITUDE
	21.00		0.0002040		FREQUENCY	AND	AMPLITUDE
	25.00		0.0001110		FREQUENCY	AND	AMPLITUDE
	27.00		0.0002347		FREQUENCY	AND	AMPLITUDE
	38.00		0.0000245		FREQUENCY	AND	AMPLITUDE
	40.00		0.0000379		FREQUENCY	AND	AMPLITUDE
	44.00		0.0000196		FREQUENCY	AND	AMPLITUDE
	47.00		0.0000826		FREQUENCY	AND	AMPLITUDE
	52.00		0.0000159		FREQUENCY	AND	AMPLITUDE
	54.00		0.0000256		FREQUENCY	AND	AMPLITUDE
	69.00		0.0000037		FREQUENCY	AND	AMPLITUDE
	74.00		0.0000423		FREQUENCY	AND	AMPLITUDE
	83.00		0.0000019		FREQUENCY	AND	AMPLITUDE
	112.00		0.0000018		FREQUENCY	AND	AMPLITUDE
	128.00		0.0000042		FREQUENCY	AND	AMPLITUDE
	141.00		0.0000016		FREQUENCY	AND	AMPLITUDE
	151.00		0.0000058		FREQUENCY	AND	AMPLITUDE
	158.00		0.0000016		FREQUENCY	AND	AMPLITUDE
	221.00		0.0000016		FREQUENCY	AND	AMPLITUDE
	244.00		0.0006464		FREQUENCY	AND	AMPLITUDE
	254.00		0.0000105		FREQUENCY	AND	AMPLITUDE
	277.00		0.0002040		FREQUENCY	AND	AMPLITUDE
	300.00		0.0000076		FREQUENCY	AND	AMPLITUDE
	320.00		0.0000740		FREQUENCY	AND	AMPLITUDE
	381.00		0.0000016		FREQUENCY	AND	AMPLITUDE
	423.00		0.0000036		FREQUENCY		AMPLITUDE
	434.00		0.0000016		FREQUENCY		AMPLITUDE
	470.00		0.0000016		FREQUENCY	AND	AMPLITUDE
	485.00		0.0000065		FREQUENCY	AND	AMPLITUDE
	493.00		0.0000016		FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.16

M1022/NON-EXPANDABLE SHELTER TYPE III MOBILITY VIBR SCHEDULE, FLOOR, TRANSVERSE

TABLE B-53. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

32	NUMBER OF	BREAK POINTS			
	3.00	0.0007430	FREQUENCY	AND	AMPLITUDE
	4.00	0.0010634	FREQUENCY	AND	AMPLITUDE
	8.00	0.0001492	FREQUENCY	AND	AMPLITUDE
	10.00	0.0001492	FREQUENCY	AND	AMPLITUDE
	16.00	0.0000112	FREQUENCY	AND	AMPLITUDE
	21.00	0.0000135	FREQUENCY	AND	AMPLITUDE
	30.00	0.0000043	FREQUENCY	AND	AMPLITUDE
	34.00	0.0000081	FREQUENCY	AND	AMPLITUDE
	38.00	0.0000050	FREQUENCY	AND	AMPLITUDE
	40.00	0.0000066	FREQUENCY	AND	AMPLITUDE
	44.00	0.0000013	FREQUENCY	AND	AMPLITUDE
	47.00	0.0000026	FREQUENCY	AND	AMPLITUDE
	50.00	0.0000010	FREQUENCY	AND	AMPLITUDE
	66.00	0.0000010	FREQUENCY	AND	AMPLITUDE
	68.00	0.0000015	FREQUENCY	AND	AMPLITUDE
	69.00	0.0000009	FREQUENCY	AND	AMPLITUDE
	73.00	0.0000025	FREQUENCY	AND	AMPLITUDE
	80.00	0.0000004	FREQUENCY	AND	AMPLITUDE
	181.00	0.0000004	FREQUENCY	AND	AMPLITUDE
	187.00	0.0000011	FREQUENCY	AND	AMPLITUDE
	193.00	0.0000004	FREQUENCY	AND	AMPLITUDE
	208.00	0.0000004	FREQUENCY	AND	AMPLITUDE
	244.00	0.0011860	FREQUENCY	AND	AMPLITUDE
	256.00	0.0000135	FREQUENCY	AND	AMPLITUDE
	281.00	0.0001492	FREQUENCY	AND	AMPLITUDE
	375.00	0.0000003	FREQUENCY	AND	AMPLITUDE
	410.00	0.0000003	FREQUENCY	AND	AMPLITUDE
	423.00	0.0000009	FREQUENCY	AND	AMPLITUDE
	427.00	0.0000004			AMPLITUDE
	470.00	0.0000004	FREQUENCY	AND	AMPLITUDE
	489.00	0.0000011		•	AMPLITUDE
	493.00	0.0000003	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.16

M1022/NON-EXPANDABLE SHELTER TYPE III MOBILITY VIBR SCHEDULE, FLOOR, LONGITUDINAL

TABLE B-54. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

43	NUMBER	OF	BREAK POINTS			
	3.00		0.0468771	FREQUENCY	AND	AMPLITUDE
	4.00		0.0259241	FREQUENCY	AND	AMPLITUDE
	6.00		0.0028339	FREQUENCY	AND	AMPLITUDE
	7.00		0.0027469	FREQUENCY	AND	AMPLITUDE
	9.00		0.0041844	FREQUENCY	AND	AMPLITUDE
	10.00		0.0032607	FREQUENCY	AND	AMPLITUDE
	15.00		0.0002098	FREQUENCY	AND	AMPLITUDE
	19.00		0.0006056	FREQUENCY	AND	AMPLITUDE
	22.00		0.0002199	FREQUENCY	AND	AMPLITUDE
	24.00		0.0004646	FREQUENCY	AND	AMPLITUDE
	27.00		0.0000749	FREQUENCY	AND	AMPLITUDE
	30.00		0.0002911	FREQUENCY	AND	AMPLITUDE
	33.00		0.0000328	FREQUENCY	AND	AMPLITUDE
	39.00		0.0004504	FREQUENCY	AND	AMPLITUDE
	45.00		0.0000492	FREQUENCY	AND	AMPLITUDE
	48.00		0.0002414	FREQUENCY	AND	AMPLITUDE
	52.00		0.0000272	FREQUENCY	AND	AMPLITUDE
	57.00		0.0000863	FREQUENCY	AND	AMPLITUDE
	69.00		0.0000182	FREQUENCY	AND	AMPLITUDE
	79.00		0.0003349	FREQUENCY	AND	AMPLITUDE
	87.00		0.0001090	FREQUENCY	AND	AMPLITUDE
	92.00		0.0002610	FREQUENCY	AND	AMPLITUDE
	125.00		0.0000120			AMPLITUDE
	134.00		0.0000378			AMPLITUDE
	140.00		0.0000087			AMPLITUDE
	148.00		0.0000087			AMPLITUDE
	158.00		0.0000947			AMPLITUDE
	176.00		0.0000095			AMPLITUDE
	199.00		0.0000093			AMPLITUDE
	234.00		0.0005779			AMPLITUDE
	244.00		0.0002340	•		AMPLITUDE
	248.00		0.0011122	FREQUENCY		
	275.00		0.0000918	FREQUENCY		
	284.00		0.0002131	FREQUENCY		
	295.00		0.0001315	FREQUENCY		
	317.00		0.0020427	FREQUENCY		
	336.00		0.0000276	FREQUENCY		
	366.00		0.0002165	FREQUENCY		
	388.00		0.0001090	FREQUENCY		
	400.00		0.0002911	FREQUENCY FREQUENCY		
	448.00 473.00		0.0000087	FREQUENCY		
	473.00		0.0000165 0.0000085	FREQUENCY		
	485.00		0.0000085	FREQUENCY	ANU	AMPLITUDE

RMS VALUE = 0.43

M832/S280 SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, VERTICAL

TABLE B-55. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

41	NUMBER	OF	BREAK POINTS			
	3.00		0.0024191	FREQUENCY	AND	AMPLITUDE
	6.00		0.0008348	FREQUENCY	AND	AMPLITUDE
	7.00		0.0007256	FREQUENCY	AND	AMPLITUDE
	10.00		0.0050529	FREQUENCY	AND	AMPLITUDE
	17.00		0.0003598	FREQUENCY	AND	AMPLITUDE
	19.00		0.0002881	FREQUENCY	AND	AMPLITUDE
	22.00		0.0000645	FREQUENCY	AND	AMPLITUDE
	25.00		0.0003950	FREQUENCY	AND	AMPLITUDE
	34.00		0.0000159	FREQUENCY	AND	AMPLITUDE
	37.00		0.0000185	FREQUENCY	AND	AMPLITUDE
	40.00		0.0000081	FREQUENCY	AND	AMPLITUDE
	42.00		0.0000409	FREQUENCY	AND	AMPLITUDE
	50.00		0.0000070	FREQUENCY	AND	AMPLITUDE
	56.00		0.0000069	FREQUENCY	AND	AMPLITUDE
	59.00		, 0.0000104	FREQUENCY	AND	AMPLITUDE
	62.00		0.0000072	FREQUENCY	AND	AMPLITUDE
	72.00		0.0000072	FREQUENCY	AND	AMPLITUDE
	78.00		0.0000313	FREQUENCY	AND	AMPLITUDE
	82.00		0.0000108	FREQUENCY	AND	AMPLITUDE
	87.00		0.0000153			AMPLITUDE
	88.00		0.0000086	FREQUENCY	AND	AMPLITUDE
	93.00		0.0000108			AMPLITUDE
	99.00		0.0000071			AMPLITUDE
	105.00		0.0000098			AMPLITUDE
	109.00		0.0000071			AMPLITUDE
	153.00		0.0000070			AMPLITUDE
	157.00		0.0000504			AMPLITUDE
	162.00		0.0000072			AMPLITUDE
	230.00		0.0000072			AMPLITUDE
	238.00		0.0000684			AMPLITUDE
	246.00		0.0000135			AMPLITUDE
	254.00		0.0000178			AMPLITUDE
	258.00		0.0000078			AMPLITUDE
	270.00		0.0000106			AMPLITUDE
	291.00		0.0000073			AMPLITUDE
	315.00		0.0004389			AMPLITUDE
	349.00		0.0000098			AMPLITUDE
	397.00		0.0002077			AMPLITUDE
	413.00		0.0000482			AMPLITUDE
	448.00		0.0001532			AMPLITUDE
	477.00		0.0000071	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.22

M832/S280 SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, TRANSVERSE

TABLE B-56. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

37	NUMBER	OF	BREAK POINTS			
	3.00		0.0068035	FREQUENCY	AND	AMPLITUDE
	4.00		0.0032194	FREQUENCY	AND	AMPLITUDE
	7.00		0.0002112	FREQUENCY	AND	AMPLITUDE
	8.00		0.0002239	FREQUENCY	AND	AMPLITUDE
	10.00		0.0004113	FREQUENCY	AND	AMPLITUDE
	12.00		0.0001879	FREQUENCY	AND	AMPLITUDE
	14.00		0.0001577	FREQUENCY	AND	AMPLITUDE
	19.00		0.0004411	FREQUENCY	AND	AMPLITUDE
	22.00		0.0000232	FREQUENCY	AND	AMPLITUDE
	25.00		0.0001387	FREQUENCY	AND	AMPLITUDE
	35.00		0.0000145	FREQUENCY	AND	AMPLITUDE
	37.00		0.0000175	FREQUENCY	AND	AMPLITUDE
	42.00		0.0000097	FREQUENCY	AND	AMPLITUDE
	50.00		0.0000869	FREQUENCY	AND	AMPLITUDE
	59.00		0.0000149	FREQUENCY	AND	AMPLITUDE
	63.00		0.0000306	FREQUENCY	AND	AMPLITUDE
	75.00		0.0000133	FREQUENCY	AND	AMPLITUDE
	79.00		0.0000286	FREQUENCY	AND	AMPLITUDE
	89.00		0.0000098	FREQUENCY	AND	AMPLITUDE
	95.00		0.0000185	FREQUENCY	AND	AMPLITUDE
	99.00		0.0000097	FREQUENCY	AND	AMPLITUDE
	104.00		0.0000095	FREQUENCY	AND	AMPLITUDE
	110.00		0.0000129	FREQUENCY	AND	AMPLITUDE
	119.00		0.0000095	FREQUENCY	AND	AMPLITUDE
	153.00		0.0000095	FREQUENCY	AND	AMPLITUDE
	157.00		0.0000126		- ***	AMPLITUDE
	158.00		0.0000097			AMPLITUDE
	232.00		0.0000095			AMPLITUDE
	236.00		0.0000357			AMPLITUDE
	246.00		0.0000098			AMPLITUDE
	293.00		0.0000098	_		AMPLITUDE
	315.00		0.0001419			AMPLITUDE
	325.00		0.0000111			AMPLITUDE
	338.00		0.0000201	FREQUENCY		
	358.00		0.0000114	FREQUENCY,		
	427.00		0.0001731			AMPLITUDE
	485.00		0.0000097	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.17

M832/S280 SHELTER TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, LONGITUDINAL

TABLE B-57. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

45	NUMBER	OF	BREAK	POINTS				
	3.00		0.035			FREQUENCY	AND	AMPLITUDE
	4.00		0.018	34879		FREQUENCY	AND	AMPLITUDE
	6.00		0.002	21177		FREQUENCY	AND	AMPLITUDE
	7.00		0.004	9913		FREQUENCY	AND	AMPLITUDE
	11.00		0.00	15996		FREQUENCY	AND	AMPLITUDE
	13.00		0.000	55058		FREQUENCY	AND	AMPLITUDE
	15.00		0.00	11004		FREQUENCY	AND	AMPLITUDE
	20.00		0.00	17840		FREQUENCY	AND	AMPLITUDE
	25.00		0.000	06477		FREQUENCY	AND	AMPLITUDE
٠	27.00		0.00	25533		FREQUENCY	AND	AMPLITUDE
	29.00		0.000	02924		FREQUENCY	AND	AMPLITUDE
	31.00		0.000	08846		FREQUENCY	AND	AMPLITUDE
	35.00		0.000	01804		FREQUENCY	AND	AMPLITUDE
	40.00		0.00	11530	•	FREQUENCY	AND	AMPLITUDE
	43.00		0.000	01920		FREQUENCY	AND	AMPLITUDE
	45.00		0.00	04186		FREQUENCY	AND	AMPLITUDE
	48.00		0.00	01891		FREQUENCY	AND	AMPLITUDE
	53.00		0.00	04387		FREQUENCY	AND	AMPLITUDE
	59.00		0.00	01593		FREQUENCY	AND	AMPLITUDE
	65.00		0.00	05126		FREQUENCY	AND	AMPLITUDE
	72.00		0.00	00430		FREQUENCY	AND	AMPLITUDE
	80.00		0.00	02542				AMPLITUDE
	86.00		0.00	00802		FREQUENCY	AND	AMPLITUDE
	93.00		0.00	01891		FREQUENCY	AND	AMPLITUDE
	103.00		0.00	00789				AMPLITUDE
	107.00			02464				AMPLITUDE
	110.00			00569				AMPLITUDE
	121.00			01643				AMPLITUDE
	146.00			00183				AMPLITUDE
	157.00			00730				AMPLITUDE
	166.00			00257				AMPLITUDE
	193.00			00815				AMPLITUDE
	195.00			00465				AMPLITUDE
	204.00			00665		,		AMPLITUDE
	223.00			00335				AMPLITUDE
	248.00			07689				AMPLITUDE
	277.00			00708				AMPLITUDE AMPLITUDE
	312.00			15996				
	344.00			00368				AMPLITUDE
	369.00			01722				AMPLITUDE
	384.00			00840				AMPLITUDE
	400.00			02279				AMPLITUDE
	455.00			00067				AMPLITUDE
	485.00			00472				AMPLITUDE
	493.00		0.00	00075		PREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.43

MASTER TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, VERTICAL

TABLE B-58. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

41	NUMBER OF	BREAK POINTS	
	3.00	0.0038166	FREQUENCY AND AMPLITUDE
	6.00	0.0009060	FREQUENCY AND AMPLITUDE
	8.00	0.0033170	FREQUENCY AND AMPLITUDE
	9.00	0.0029511	FREQUENCY AND AMPLITUDE
	10.00	0.0049361	FREQUENCY AND AMPLITUDE
	13.00	0.0009384	FREQUENCY AND AMPLITUDE
	15.00	0.0013326	FREQUENCY AND AMPLITUDE
	22.00	0.0004708	FREQUENCY AND AMPLITUDE
	25.00	0.0006306	FREQUENCY AND AMPLITUDE
	42.00	0.0000595	FREQUENCY AND AMPLITUDE
	47.00	0.0002151	FREQUENCY AND AMPLITUDE
	56.00	0.0000653	FREQUENCY AND AMPLITUDE
	66.00	0.0002280	FREQUENCY AND AMPLITUDE
	70.00	0.0000092	FREQUENCY AND AMPLITUDE
	77.00	0.0000316	FREQUENCY AND AMPLITUDE
	83.00	0.0000106	FREQUENCY AND AMPLITUDE
	85.00	0.0000151	FREQUENCY AND AMPLITUDE
	87.00	0.0000081	FREQUENCY AND AMPLITUDE
	89.00	0.0000106	FREQUENCY AND AMPLITUDE
	99.00	0.0000071	FREQUENCY AND AMPLITUDE
	105.00	0.0000351	FREQUENCY AND AMPLITUDE
	109.00	0.0000079	FREQUENCY AND AMPLITUDE
	121.00	0.0000124	FREQUENCY AND AMPLITUDE
	125.00	0.0000070	FREQUENCY AND AMPLITUDE
	154.00	0.0000069	FREQUENCY AND AMPLITUDE
	156.00	0.0000529	FREQUENCY AND AMPLITUDE
	162.00	0.0000072	FREQUENCY AND AMPLITUDE
	192.00	0.0000072	FREQUENCY AND AMPLITUDE
	193.00	0.0000132	FREQUENCY AND AMPLITUDE
	203.00	0.0000072	FREQUENCY AND AMPLITUDE
	232.00	0.0000072	FREQUENCY AND AMPLITUDE
	242.00	0.0003127	FREQUENCY AND AMPLITUDE
	262.00	0.0000082	FREQUENCY AND AMPLITUDE
	275.00	0.0000844	FREQUENCY AND AMPLITUDE
	288.00	0.0000081	FREQUENCY AND AMPLITUDE
	315.00	0.0004546	FREQUENCY AND AMPLITUDE
	344.00 397.00	0.0000090	FREQUENCY AND AMPLITUDE
	413.00	0.0002202	FREQUENCY AND AMPLITUDE
	444.00	0.0000476	FREQUENCY AND AMPLITUDE
		0.0001532	FREQUENCY AND AMPLITUDE
	481.00	0.0000072	FREQUENCY AND AMPLITUDE

RMS VALUE = 0.26

MASTER TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, TRANSVERSE

TABLE B-59. SHELTER FLOOR VIBRATION SCHEDULE BREAKPOINTS

3.00 0.0023021 FREQUENCY AND AMPLITUDE 5.00 0.0006288 FREQUENCY AND AMPLITUDE 6.00 0.0004919 FREQUENCY AND AMPLITUDE 7.00 0.0012982 FREQUENCY AND AMPLITUDE 9.00 0.0003118 FREQUENCY AND AMPLITUDE 11.00 0.0002678 FREQUENCY AND AMPLITUDE 11.00 0.0002678 FREQUENCY AND AMPLITUDE 23.00 0.0006905 FREQUENCY AND AMPLITUDE 23.00 0.0000893 FREQUENCY AND AMPLITUDE 26.00 0.0001678 FREQUENCY AND AMPLITUDE 29.00 0.0001678 FREQUENCY AND AMPLITUDE 43.00 0.00001678 FREQUENCY AND AMPLITUDE 43.00 0.0000101 FREQUENCY AND AMPLITUDE 51.00 0.0000586 FREQUENCY AND AMPLITUDE 53.00 0.0000586 FREQUENCY AND AMPLITUDE 53.00 0.0000586 FREQUENCY AND AMPLITUDE 53.00 0.0000181 FREQUENCY AND AMPLITUDE 65.00 0.0001181 FREQUENCY AND AMPLITUDE 65.00 0.0000151 FREQUENCY AND AMPLITUDE 85.00 0.0000031 FREQUENCY AND AMPLITUDE 85.00 0.0000031 FREQUENCY AND AMPLITUDE 95.00 0.0000034 FREQUENCY AND AMPLITUDE 95.00 0.0000035 FREQUENCY AND AMPLITUDE 95.00 0.0000036 FREQUENCY AND AMPLITUDE 110.00 0.0000037 FREQUENCY AND AMPLITUDE 117.00 0.0000038 FREQUENCY AND AMPLITUDE 117.00 0.0000039 FREQUENCY AND AMPLITUDE 117.00 0.0000030 FREQUENCY AND AMPLITUDE 117.00 0.0000031 FREQUENCY AND AMPLITUDE 117.00 0.0000031 FREQUENCY AND AMPLITUDE 117.00 0.0000032 FREQUENCY AND AMPLITUDE 117.00 0.0000034 FREQUENCY AND AMPLITUDE 117.00 0.0000035 FREQUENCY AND AMPLITUDE 117.00 0.0000036 FREQUENCY AND AMPLITUDE 117.00 0.0000037 FREQUENCY AND AMPLITUDE 117.00 0.0000031 FREQUEN	43	NUMBER	OF	BREAK POINTS			
6.00 0.004919 FREQUENCY AND AMPLITUDE 7.00 0.0012982 FREQUENCY AND AMPLITUDE 9.00 0.0003118 FREQUENCY AND AMPLITUDE 11.00 0.0002678 FREQUENCY AND AMPLITUDE 16.00 0.0006905 FREQUENCY AND AMPLITUDE 23.00 0.0000893 FREQUENCY AND AMPLITUDE 26.00 0.0001821 FREQUENCY AND AMPLITUDE 29.00 0.0001678 FREQUENCY AND AMPLITUDE 43.00 0.0000101 FREQUENCY AND AMPLITUDE 49.00 0.0000586 FREQUENCY AND AMPLITUDE 51.00 0.0000586 FREQUENCY AND AMPLITUDE 53.00 0.0000186 FREQUENCY AND AMPLITUDE 53.00 0.0000186 FREQUENCY AND AMPLITUDE 65.00 0.0001181 FREQUENCY AND AMPLITUDE 68.00 0.0000151 FREQUENCY AND AMPLITUDE 85.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000040 FREQUENCY AND AMPLITUDE 95.00 0.0000057 FREQUENCY AND AMPLITUDE 95.00 0.0000058 FREQUENCY AND AMPLITUDE 110.00 0.0000059 FREQUENCY AND AMPLITUDE 1110.00 0.0000053 FREQUENCY AND AMPLITUDE 1110.00 0.0000054 FREQUENCY AND AMPLITUDE 1150.00 0.0000055 FREQUENCY AND AMPLITUDE 1150.00 0.0000056 FREQUENCY AND AMPLITUDE 1150.00 0.0000057 FREQUENCY AND AMPLITUDE 1150.00 0.0000058 FREQUENCY AND AMPLITUDE 1150.00 0.0000059 FREQUENCY AND AMPLITUDE 120.00 0.0000051 FREQUENCY AND AMPLITUDE 155.00 0.0000052 FREQUENCY AND AMPLITUDE 155.00 0.0000053 FREQUENCY AND AMPLITUDE 155.00 0.0000054 FREQUENCY AND AMPLITUDE 155.00 0.0000055 FREQUENCY AND AMPLITUDE 155.00 0.0000056 FREQUENCY AND AMPLITUDE 155.00 0.0000057 FREQUENCY AND AMPLITUDE 155.00 0.0000058 FREQUENCY AND AMPLITUDE 155.00 0.0000059 FREQUENCY AND AMPLITUDE 155.00 0.000059 FREQUENCY AND AMPLITUDE 155.00 0.000059 FREQUENCY AND AMPLITUDE 155.00 0.000059		3.00		0.0023021	FREQUENCY	AND	AMPLITUDE
7.00		5.00		0.0006288	FREQUENCY	AND	AMPLITUDE
9.00 0.0003118 FREQUENCY AND AMPLITUDE 11.00 0.0002678 FREQUENCY AND AMPLITUDE 16.00 0.0006905 FREQUENCY AND AMPLITUDE 23.00 0.0000893 FREQUENCY AND AMPLITUDE 26.00 0.0001821 FREQUENCY AND AMPLITUDE 29.00 0.0001678 FREQUENCY AND AMPLITUDE 43.00 0.0000101 FREQUENCY AND AMPLITUDE 49.00 0.0000586 FREQUENCY AND AMPLITUDE 51.00 0.0000469 FREQUENCY AND AMPLITUDE 53.00 0.0000186 FREQUENCY AND AMPLITUDE 65.00 0.0000186 FREQUENCY AND AMPLITUDE 65.00 0.0000181 FREQUENCY AND AMPLITUDE 65.00 0.0000151 FREQUENCY AND AMPLITUDE 85.00 0.0000055 FREQUENCY AND AMPLITUDE 85.00 0.0000055 FREQUENCY AND AMPLITUDE 95.00 0.0000056 FREQUENCY AND AMPLITUDE 95.00 0.0000057 FREQUENCY AND AMPLITUDE 95.00 0.0000058 FREQUENCY AND AMPLITUDE 106.00 0.0000059 FREQUENCY AND AMPLITUDE 110.00 0.0000056 FREQUENCY AND AMPLITUDE 110.00 0.0000057 FREQUENCY AND AMPLITUDE 110.00 0.0000058 FREQUENCY AND AMPLITUDE 110.00 0.0000059 FREQUENCY AND AMPLITUDE 110.00 0.0000050 FREQUENCY AND AMPLITUDE 110.00 0.0000051 FREQUENCY AND AMPLITUDE 110.00 0.0000052 FREQUENCY AND AMPLITUDE 110.00 0.0000053 FREQUENCY AND AMPLITUDE 110.00 0.0000054 FREQUENCY AND AMPLITUDE 110.00 0.0000055 FREQUENCY AND AMPLITUDE 110.00 0.0000056 FREQUENCY AND AMPLITUDE 110.00 0.0000057 FREQUENCY AND AMPLITUDE 110.00 0.0000058 FREQUENCY AND AMPLITUDE 110.00 0.0000059 FREQUENCY AND AMPLITUDE 110.00 0.0000059 FREQUENCY AND AMPLITUDE 110.00 0.0000050 FREQUENCY AND AMPLITUDE 110.00 0.000050 FREQUENCY AND AMPLITUDE 110.00 0.000050 FREQUENCY AND AMPLITUDE 110.00 0.000050 F		6.00		0.0004919	FREQUENCY	AND	AMPLITUDE
11.00		7.00		0.0012982	FREQUENCY	AND	AMPLITUDE
16.00 0.0006905 FREQUENCY AND AMPLITUDE 23.00 0.0000893 FREQUENCY AND AMPLITUDE 26.00 0.0001821 FREQUENCY AND AMPLITUDE 29.00 0.0001678 FREQUENCY AND AMPLITUDE 43.00 0.0000101 FREQUENCY AND AMPLITUDE 49.00 0.0000586 FREQUENCY AND AMPLITUDE 51.00 0.0000469 FREQUENCY AND AMPLITUDE 53.00 0.0000186 FREQUENCY AND AMPLITUDE 57.00 0.0000186 FREQUENCY AND AMPLITUDE 68.00 0.0000181 FREQUENCY AND AMPLITUDE 85.00 0.0000031 FREQUENCY AND AMPLITUDE 85.00 0.0000035 FREQUENCY AND AMPLITUDE 95.00 0.0000055 FREQUENCY AND AMPLITUDE 95.00 0.0000056 FREQUENCY AND AMPLITUDE 95.00 0.0000057 FREQUENCY AND AMPLITUDE 106.00 0.0000058 FREQUENCY AND AMPLITUDE 110.00 0.0000059 FREQUENCY AND AMPLITUDE 110.00 0.0000050 FREQUENCY AND AMPLITUDE 110.00 0.0000051 FREQUENCY AND AMPLITUDE 110.00 0.0000052 FREQUENCY AND AMPLITUDE 110.00 0.0000030 FREQUENCY AND AMPLITUDE 121.00 0.0000031 FREQUENCY AND AMPLITUDE 153.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 158.00 0.0000031 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE		9.00		0.0003118	FREQUENCY	AND	AMPLITUDE
23.00		11.00		0.0002678	FREQUENCY	AND	AMPLITUDE
26.00		16.00		0.0006905	FREQUENCY	AND	AMPLITUDE
29.00		23.00		0.0000893	FREQUENCY	AND	AMPLITUDE
43.00 0.0000101 FREQUENCY AND AMPLITUDE 49.00 0.0000586 FREQUENCY AND AMPLITUDE 51.00 0.0000469 FREQUENCY AND AMPLITUDE 53.00 0.0000586 FREQUENCY AND AMPLITUDE 57.00 0.0000186 FREQUENCY AND AMPLITUDE 65.00 0.0001181 FREQUENCY AND AMPLITUDE 68.00 0.0000151 FREQUENCY AND AMPLITUDE 85.00 0.0000031 FREQUENCY AND AMPLITUDE 88.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000059 FREQUENCY AND AMPLITUDE 95.00 0.0000059 FREQUENCY AND AMPLITUDE 99.00 0.0000036 FREQUENCY AND AMPLITUDE 110.00 0.0000053 FREQUENCY AND AMPLITUDE 117.00 0.0000053 FREQUENCY AND AMPLITUDE 117.00 0.0000067 FREQUENCY AND AMPLITUDE 121.00 0.0000067 FREQUENCY AND AMPLITUDE 122.00 0.0000030 FREQUENCY AND AMPLITUDE 125.00 0.0000031 FREQUENCY AND AMPLITUDE 153.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 208.00 0.0000031 FREQUENCY AND AMPLITUDE		26.00		0.0001821	FREQUENCY	AND	AMPLITUDE
49.00 0.0000586 FREQUENCY AND AMPLITUDE 51.00 0.0000469 FREQUENCY AND AMPLITUDE 53.00 0.0000586 FREQUENCY AND AMPLITUDE 57.00 0.0000186 FREQUENCY AND AMPLITUDE 65.00 0.0001181 FREQUENCY AND AMPLITUDE 68.00 0.0000151 FREQUENCY AND AMPLITUDE 85.00 0.0000031 FREQUENCY AND AMPLITUDE 88.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000040 FREQUENCY AND AMPLITUDE 95.00 0.0000059 FREQUENCY AND AMPLITUDE 99.00 0.0000036 FREQUENCY AND AMPLITUDE 110.00 0.0000053 FREQUENCY AND AMPLITUDE 117.00 0.0000067 FREQUENCY AND AMPLITUDE 117.00 0.0000067 FREQUENCY AND AMPLITUDE 121.00 0.0000030 FREQUENCY AND AMPLITUDE 129.00 0.0000030 FREQUENCY AND AMPLITUDE 153.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE		29.00		0.0001678	FREQUENCY	AND	AMPLITUDE
51.00		43.00		0.0000101	FREQUENCY	AND	AMPLITUDE
53.00 0.0000586 FREQUENCY AND AMPLITUDE 57.00 0.0000186 FREQUENCY AND AMPLITUDE 65.00 0.0001181 FREQUENCY AND AMPLITUDE 68.00 0.0000151 FREQUENCY AND AMPLITUDE 85.00 0.0000031 FREQUENCY AND AMPLITUDE 88.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000040 FREQUENCY AND AMPLITUDE 95.00 0.0000059 FREQUENCY AND AMPLITUDE 99.00 0.0000036 FREQUENCY AND AMPLITUDE 106.00 0.0000427 FREQUENCY AND AMPLITUDE 110.00 0.0000053 FREQUENCY AND AMPLITUDE 117.00 0.0000067 FREQUENCY AND AMPLITUDE 121.00 0.0000036 FREQUENCY AND AMPLITUDE 121.00 0.0000036 FREQUENCY AND AMPLITUDE 121.00 0.0000037 FREQUENCY AND AMPLITUDE 125.00 0.0000038 FREQUENCY AND AMPLITUDE 126.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000031 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 208.00 0.0000031 FREQUENCY AND AMPLITUDE		49.00		0.0000586	FREQUENCY	AND	AMPLITUDE
57.00 0.0000186 FREQUENCY AND AMPLITUDE 65.00 0.0001181 FREQUENCY AND AMPLITUDE 68.00 0.0000151 FREQUENCY AND AMPLITUDE 85.00 0.0000031 FREQUENCY AND AMPLITUDE 88.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000059 FREQUENCY AND AMPLITUDE 95.00 0.0000036 FREQUENCY AND AMPLITUDE 106.00 0.0000036 FREQUENCY AND AMPLITUDE 110.00 0.0000053 FREQUENCY AND AMPLITUDE 117.00 0.0000067 FREQUENCY AND AMPLITUDE 121.00 0.0000030 FREQUENCY AND AMPLITUDE 126.00 0.0000031 FREQUENCY AND AMPLITUDE 129.00 0.0000032 FREQUENCY AND AMPLITUDE 153.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 208.00 0.0000031 FREQUENCY AND AMPLITUDE 244.00 0.000003		51.00		0.0000469	FREQUENCY	AND	AMPLITUDE
65.00 0.0001181 FREQUENCY AND AMPLITUDE 68.00 0.0000151 FREQUENCY AND AMPLITUDE 85.00 0.0000031 FREQUENCY AND AMPLITUDE 88.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000040 FREQUENCY AND AMPLITUDE 95.00 0.0000059 FREQUENCY AND AMPLITUDE 99.00 0.0000036 FREQUENCY AND AMPLITUDE 106.00 0.0000427 FREQUENCY AND AMPLITUDE 110.00 0.0000053 FREQUENCY AND AMPLITUDE 117.00 0.0000067 FREQUENCY AND AMPLITUDE 121.00 0.0000030 FREQUENCY AND AMPLITUDE 121.00 0.0000030 FREQUENCY AND AMPLITUDE 126.00 0.0000031 FREQUENCY AND AMPLITUDE 153.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000031 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 208.00 0.0000030 FREQUENCY AND AMPLITUDE		53.00		0.0000586	FREQUENCY	AND	AMPLITUDE
68.00 0.0000151 FREQUENCY AND AMPLITUDE 85.00 0.0000031 FREQUENCY AND AMPLITUDE 88.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000040 FREQUENCY AND AMPLITUDE 95.00 0.0000059 FREQUENCY AND AMPLITUDE 99.00 0.0000036 FREQUENCY AND AMPLITUDE 106.00 0.0000427 FREQUENCY AND AMPLITUDE 110.00 0.0000053 FREQUENCY AND AMPLITUDE 117.00 0.0000067 FREQUENCY AND AMPLITUDE 121.00 0.0000030 FREQUENCY AND AMPLITUDE 126.00 0.0000031 FREQUENCY AND AMPLITUDE 129.00 0.0000032 FREQUENCY AND AMPLITUDE 153.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 208.00 0.0000031 FREQUENCY AND AMPLITUDE		57.00		0.0000186	FREQUENCY	AND	AMPLITUDE
85.00 0.0000031 FREQUENCY AND AMPLITUDE 88.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000040 FREQUENCY AND AMPLITUDE 95.00 0.0000059 FREQUENCY AND AMPLITUDE 99.00 0.0000036 FREQUENCY AND AMPLITUDE 106.00 0.0000427 FREQUENCY AND AMPLITUDE 110.00 0.0000053 FREQUENCY AND AMPLITUDE 117.00 0.0000067 FREQUENCY AND AMPLITUDE 121.00 0.0000030 FREQUENCY AND AMPLITUDE 126.00 0.0000034 FREQUENCY AND AMPLITUDE 129.00 0.0000032 FREQUENCY AND AMPLITUDE 153.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000031 FREQUENCY AND AMPLITUDE 196.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 208.00 0.0000030 FREQUENCY AND AMPLITUDE		65.00		0.0001181			
88.00 0.0000055 FREQUENCY AND AMPLITUDE 93.00 0.0000040 FREQUENCY AND AMPLITUDE 95.00 0.0000059 FREQUENCY AND AMPLITUDE 99.00 0.0000036 FREQUENCY AND AMPLITUDE 106.00 0.0000427 FREQUENCY AND AMPLITUDE 110.00 0.0000053 FREQUENCY AND AMPLITUDE 117.00 0.0000067 FREQUENCY AND AMPLITUDE 121.00 0.0000030 FREQUENCY AND AMPLITUDE 126.00 0.0000031 FREQUENCY AND AMPLITUDE 129.00 0.0000032 FREQUENCY AND AMPLITUDE 153.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 157.00 0.0000032 FREQUENCY AND AMPLITUDE 159.00 0.0000031 FREQUENCY AND AMPLITUDE 196.00 0.0000031 FREQUENCY AND AMPLITUDE 201.00 0.0000031 FREQUENCY AND AMPLITUDE 208.00 0.0000030 FREQUENCY AND AMPLITUDE							
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341.00 0.0000052 FREQUENCY AND AMPLITUDE							
430.00 0.0000566 FREQUENCY AND AMPLITUDE		430.00		0.0000556			
485.00 0.000056 FREQUENCY AND AMPLITUDE							
RMS VALUE = 0.18	RMS VA		0.1				-2

MASTER TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, LONGITUDINAL

TABLE B-60. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

23	NUMBER O	F BREAK POINTS			
	3.00	0.0452835	FREQUENCY	AND	AMPLITUDE
	4.00	0.0297250	FREQUENCY	AND	AMPLITUDE
	7.00	0.0032045	FREQUENCY	AND	AMPLITUDE
	10.00	0.0039730	FREQUENCY	AND	AMPLITUDE
	13.00	0.0024505	FREQUENCY	AND	AMPLITUDE
	19.00	0.0038570	FREQUENCY	AND	AMPLITUDE
	36.00	0.0003335	FREQUENCY	AND	AMPLITUDE
	39.00	0.0006090	FREQUENCY	AND	AMPLITUDE
	43.00	0.0001885	FREQUENCY	AND	AMPLITUDE
	47.00	0.0002465	FREQUENCY	AND	AMPLITUDE
	48.00	0.0001595	FREQUENCY	AND	AMPLITUDE
	51.00	0.0001450	FREQUENCY	AND	AMPLITUDE
	54.00	0.0002465	FREQUENCY	AND	AMPLITUDE
	66.00	0.0002175	FREQUENCY	AND	AMPLITUDE
	73.00	0.0000145	FREQUENCY	AND	AMPLITUDE
	76.00	0.0000145	FREQUENCY	AND	AMPLITUDE
	78.00	0.0000145	FREQUENCY	AND	AMPLITUDE
	99.00	0.0000145	FREQUENCY	AND	AMPLITUDE
	105.00	0.0005075	FREQUENCY	AND	AMPLITUDE
	110.00	0.0000145	FREQUENCY	AND	AMPLITUDE
	413.00	0.0000145	FREQUENCY	AND	AMPLITUDE
	420.00	0.0000290	FREQUENCY	AND	AMPLITUDE
	427.00	0.0000145	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.41

M923/S280 TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, VERTICAL

TABLE B-61. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

44	NUMBER	OF	BREAK POINTS			
	3.00		0.0139150	FREQUENCY	AND	AMPLITUDE
	7.00		0.0033660	FREQUENCY	AND	AMPLITUDE
	8.00		0.0058080	FREQUENCY	AND	AMPLITUDE
	9.00		0.0054560	FREQUENCY	AND	AMPLITUDE
	11.00		0.0016170	FREQUENCY	AND	AMPLITUDE
	15.00		0.0015180	FREQUENCY	AND	AMPLITUDE
	16.00		0.0011440	FREQUENCY	AND	AMPLITUDE
	19.00		0.0084480	FREQUENCY	AND	AMPLITUDE
	21.00		0.0030140	FREQUENCY	AND	AMPLITUDE
	23.00		0.0111870	FREQUENCY	AND	AMPLITUDE
	25.00		0.0052140	FREQUENCY	AND	AMPLITUDE
	27.00		0.0076890	FREQUENCY	AND	AMPLITUDE
	35.00		0.0003630	FREQUENCY	AND	AMPLITUDE
	41.00		0.0013420	FREQUENCY	AND	AMPLITUDE
	43.00		/ 0.0006160	FREQUENCY	AND	AMPLITUDE
	47.00		0.0029700	FREQUENCY	AND	AMPLITUDE
	53.00		0.0001430	FREQUENCY	AND	AMPLITUDE
	58.00		0.0001760	FREQUENCY	AND	AMPLITUDE
	67.00		0.0026290	FREQUENCY	AND	AMPLITUDE
	69.00		0.0002530	FREQUENCY	AND	AMPLITUDE
	76.00		0.0001540	FREQUENCY	AND	AMPLITUDE
	79.00		0.0003080	FREQUENCY	AND	AMPLITUDE
	81.00		0.0001540	FREQUENCY	AND	AMPLITUDE
	96.00		0.0003850	FREQUENCY	AND	AMPLITUDE
	100.00		0.0001430	FREQUENCY	AND	AMPLITUDE
	107.00		0.0026620	FREQUENCY	AND	AMPLITUDE
	116.00		0.0001210	FREQUENCY	AND	AMPLITUDE
	125.00		0.0003300	FREQUENCY	AND	AMPLITUDE
	134.00		0.0000440			AMPLITUDE
	139.00		0.0001210			AMPLITUDE
	144.00		0.0000330			AMPLITUDE
	153.00		0.0000440	FREQUENCY		AMPLITUDE
	161.00		0.0000110	FREQUENCY		AMPLITUDE
	180.00		0.0000110			AMPLITUDE
	192.00		0.0000330	FREQUENCY		AMPLITUDE
	196.00		0.0000110	FREQUENCY		
	211.00		0.0000220			AMPLITUDE
	218.00		0.0000110	FREQUENCY		
	315.00		0.0000110	FREQUENCY		
	349.00		0.0001980			AMPLITUDE
	384.00		0.0000110			AMPLITUDE
	410.00		0.0000110			AMPLITUDE
	417.00		0.0000440			AMPLITUDE
	430.00		0.0000110	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.45

M923/S280 TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, TRANSVERSE

TABLE B-62. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

46	NUMBER	OF	BREAK POINTS			
	3.00		0.0224109	FREQUENCY	AND	AMPLITUDE
	4.00		0.0336108	FREQUENCY	AND	AMPLITUDE
	6.00		0.0014874	FREQUENCY	AND	AMPLITUDE
	7.00		0.0014652	FREQUENCY	AND	AMPLITUDE
	8.00		0.0031413	FREQUENCY	AND	AMPLITUDE
	9.00		0.0031968	FREQUENCY	AND	AMPLITUDE
	12.00		0.0005439			AMPLITUDE
	17.00		0.0011100			AMPLITUDE
	22.00		0.0069597			AMPLITUDE
	27.00		0.0014430			AMPLITUDE
	33.00		0.0010212			AMPLITUDE
	36.00		0.0031413			AMPLITUDE
	43.00		0.0003108			AMPLITUDE
	46.00		0.0004329			AMPLITUDE
	48.00		0.0002664			AMPLITUDE
	50.00		0.0003774			AMPLITUDE
	52.00 55.00		0.0002442 0.0004773			AMPLITUDE AMPLITUDE
	59.00		0.0004773			AMPLITUDE
	65.00		0.0001443			AMPLITUDE
	72.00		0.0003333			AMPLITUDE
	76.00		0.0000333			AMPLITUDE
	79.00		0.0000222			AMPLITUDE
	83.00		0.0000333			AMPLITUDE
	87.00		0.0000222			AMPLITUDE
	92.00		0.0000444	FREQUENCY	AND	AMPLITUDE
	99.00		0.0000333	FREQUENCY	AND	AMPLITUDE
	106.00		0.0001776	FREQUENCY	AND	AMPLITUDE
	109.00		0.0000888	FREQUENCY	AND	AMPLITUDE
	126.00		0.0011766	FREQUENCY	AND	AMPLITUDE
	139.00		0.0000333	FREQUENCY	AND	AMPLITUDE
	150.00		0.0000222	FREQUENCY	AND	AMPLITUDE
	153.00		0.0000444			AMPLITUDE
	159.00		0.0000111			AMPLITUDE
	206.00		0.0000111			AMPLITUDE
	213.00		0.0000333			AMPLITUDE
	216.00		0.0000111			AMPLITUDE
	246.00		0.0000111			AMPLITUDE
	264.00		0.0000222	FREQUENCY		
	279.00 295.00		0.0000111	FREQUENCY		
	302.00		0.0000111 0.0000111	FREQUENCY		
	302.00 3 07.00		0.0000111	FREQUENCY		
	330.00		0.0000111	FREQUENCY		
	344.00		0.0000333	FREQUENCY		
	361.00		0.0000111	FREQUENCY		
			-10000111			

RMS VALUE = 0.39

M923/S280 TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, LONGITUDINAL

TABLE B-63. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

37	NUMBER OF	BREAK POINTS			
	3.00	0.0142910	FREQUENCY	AND	AMPLITUDE
	5.00	0.0024742	FREQUENCY	AND	AMPLITUDE
	7.00	0.0105451	FREQUENCY	AND	AMPLITUDE
	9.00	0.0055436	FREQUENCY	AND	AMPLITUDE
	10.00	0.0065294	FREQUENCY	AND	AMPLITUDE
	18.00	0.0004650	FREQUENCY	AND	AMPLITUDE
	21.00	0.0006602	FREQUENCY	AND	AMPLITUDE
	23.00	0.0003856	FREQUENCY	AND	AMPL I TUDE
	28.00	0.0008539	FREQUENCY	AND	AMPLITUDE
	41.00	0.0000395	FREQUENCY	AND	AMPLITUDE
	53.00	0.0000376	FREQUENCY	AND	AMPLITUDE
	55.00	0.0000298	FREQUENCY	AND	AMPLITUDE
	59.00	0.0000336	FREQUENCY	AND	AMPLITUDE
	64.00	0.0000145	FREQUENCY	AND	AMPLITUDE
	78.00	0.0000144	FREQUENCY	AND	AMPLITUDE
	81.00	0.0000239	FREQUENCY	AND	AMPLITUDE
	83.00	0.0000150	FREQUENCY	AND	AMPLITUDE
	108.00	0.0000150	FREQUENCY	AND	AMPLITUDE
	110.00	0.0000203			AMPLITUDE
	112.00	0.0000145	FREQUENCY	AND	AMPLITUDE
	127.00	0.0000145			AMPLITUDE
	134.00	0.0000444			AMPLITUDE
	139.00	0.0000148			AMPLITUDE
	153.00	0.0000145			AMPLITUDE
	161.00	0.0000481			AMPLITUDE
	176.00	0.0001623			AMPLITUDE
	181.00	0.0000222			AMPLITUDE
	189.00	0.0000475			AMPLITUDE
	193.00	0.0000148			AMPLITUDE
	204.00	0.0000145			AMPLITUDE
	209.00	0.0000242			AMPLITUDE
	211.00	0.0000148			AMPLITUDE
	227.00	0.0000145			AMPLITUDE
	244.00	0.0000554			AMPLITUDE
	256.00	0.0000351	FREQUENCY		
	268.00	0.0001184	FREQUENCY		
	279.00	0.0000148	FREQUENCY	AND	AMPLITUDE

HMMWV/S250 TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, VERTICAL

TABLE B-64. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

27	NUMBER O	F BREAK POINTS	,		
	3.00	0.0161660	FREQUENCY	AND	AMPLITUDE
	4.00	0.0033746	FREQUENCY	AND	AMPLITUDE
	5.00	0.0021642	FREQUENCY	AND	AMPLITUDE
	7.00	0.0021642	FREQUENCY	AND	AMPLITUDE
	11.00	0.0078307	FREQUENCY	AND	AMPLITUDE
	13.00	0.0024325	FREQUENCY	AND	AMPLITUDE
	18.00	0.0007469	FREQUENCY	AND	AMPLITUDE
	22.00	0.0009327	FREQUENCY	AND	AMPLITUDE
	28.00	0.0073860	FREQUENCY	AND	AMPLITUDE
	48.00	0.0000192	FREQUENCY	AND	AMPLITUDE
	51.00	0.0000274	FREQUENCY	AND	AMPLITUDE
	52.00	0.0000166	FREQUENCY	AND	AMPLITUDE
	56.00	0.0000163	FREQUENCY	AND	AMPLITUDE
	59.00	0.0000303	FREQUENCY	AND	AMPLITUDE
	62.00	0.0000163	FREQUENCY	AND	AMPLITUDE
	93.00	0.0000163	FREQUENCY	AND	AMPLITUDE
	103.00	0.0000341	FREQUENCY	AND	AMPLITUDE
	106.00	0.0000166	FREQUENCY	AND	AMPLITUDE
	114.00	0.0000163	FREQUENCY	AND	AMPLITUDE
	127.00	0.0000612	FREQUENCY	AND	AMPLITUDE
	136.00	0.0000166	FREQUENCY	AND	AMPLITUDE
	171.00	0.0000163	FREQUENCY	AND	AMPLITUDE
	177.00	0.0000353	FREQUENCY	AND	AMPLITUDE
	181.00	0.0000166	FREQUENCY	AND	AMPLITUDE
	187.00	0.0000163	FREQUENCY	AND	AMPLITUDE
	196.00	0.0000270	FREQUENCY	AND	AMPLITUDE
	199.00	0.0000166	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.33

HMMWV/S250 TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, TRANS

TABLE B-65. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

30	NUMBER	OF BREAK POINTS			
	3.00	0.0019725	FREQUENCY	AND	AMPLITUDE
	4.00	0.0009934	FREQUENCY	AND	AMPLITUDE
	5.00	0.0012358	FREQUENCY	AND	AMPLITUDE
	7.00	0.0078986	FREQUENCY	AND	AMPLITUDE
	9.00	0.0022345	FREQUENCY	AND	AMPLITUDE
	10.00	0.0023783	FREQUENCY	AND	AMPLITUDE
	13.00	0.0011431	FREQUENCY	AND	AMPLITUDE
	15.00	0.0013782	FREQUENCY	AND	AMPLITUDE
	23.00	0.0002855	FREQUENCY	AND	AMPLITUDE
	29.00	0.0046491	FREQUENCY	AND	AMPLITUDE
	35.00	0.0000747	FREQUENCY	AND	AMPLITUDE
	50.00	0.0000105	FREQUENCY	AND	AMPLITUDE
	56.00	0.0000068	FREQUENCY	AND	AMPLITUDE
	60.00	0.0000115	FREQUENCY	AND	AMPLITUDE
	65.00	0.0000057	FREQUENCY	AND	AMPLITUDE
	72.00	0.0000056	FREQUENCY	AND	AMPLITUDE
	81.00	0.0001460	FREQUENCY	AND	AMPLITUDE
	92.00	0.0000058	FREQUENCY	AND	AMPLITUDE
	115.00	0.0000058	FREQUENCY	AND	AMPLITUDE
	122.00	0.0000280	FREQUENCY	AND	AMPLITUDE
	124.00	0.0000058	FREQUENCY	AND	AMPLITUDE
	132.00	0.0000057	FREQUENCY	AND	AMPLITUDE
	135.00	0.0000103	FREQUENCY	AND	AMPLITUDE
	137.00	0.0000058	FREQUENCY	AND	AMPLITUDE
	159.00	0.0000057	FREQUENCY	AND	AMPLITUDE
	177.00	0.0000491	FREQUENCY	AND	AMPLITUDE
	180.00	0.0000058	FREQUENCY	AND	AMPLITUDE
	190.00	0.0000057	FREQUENCY	AND	AMPLITUDE
	195.00	0.0000106	FREQUENCY	AND	AMPLITUDE
	203.00	0.0000058	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.23

HMMWV/S250 TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, LONGITUDINAL

TABLE B-66. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

3	6 NUMBE	R OF	BREAK POINTS			
	3.00		0.0141301	FREQUENCY	AND	AMPLITUDE
	5.00	•	0.0038597	FREQUENCY	AND	AMPLITUDE
	7.00		0.0118573	FREQUENCY	AND	AMPLITUDE
	9.00		0.0040921	FREQUENCY	AND	AMPLITUDE
	11.00		0.0042381	FREQUENCY	AND	AMPLITUDE
	14.00		0.0006683	FREQUENCY	AND	AMPLITUDE
	16.00		0.0020291	FREQUENCY	AND	AMPLITUDE
	19.00		0.0008248	FREQUENCY	AND	AMPLITUDE
	20.00		0.0008951	FREQUENCY	AND	AMPLITUDE
	29.00		0.0002563	FREQUENCY	AND	AMPLITUDE
	32.00		0.0007338	FREQUENCY	AND	AMPLITUDE
	46.00		0.0000637	FREQUENCY	AND	AMPLITUDE
	49.00		0.0000948	FREQUENCY	AND	AMPLITUDE
	52.00		0.0000395	FREQUENCY	AND	AMPLITUDE
	58.00		0.0000493	FREQUENCY	AND	AMPLITUDE
	62.00		0.0000834	FREQUENCY	AND	AMPLITUDE
	68.00		0.0000193	FREQUENCY	AND	AMPLITUDE
	83.00		0.0000189	FREQUENCY	AND	AMPLITUDE
	85.00		0.0000248	FREQUENCY	AND	AMPLITUDE
	86.00		0.0000189	FREQUENCY	AND	AMPLITUDE
	150.00		0.0000189	FREQUENCY	AND	AMPLITUDE
	153.00		0.0000280	FREQUENCY	AND	AMPLITUDE
	154.00		0.0000184	FREQUENCY	AND	AMPLITUDE
	169.00		0.0000182	FREQUENCY		
	177.00		0.0000581	FREQUENCY	AND	AMPLITUDE
	187.00		0.0000309	FREQUENCY		
	198.00		0.0001411	FREQUENCY		
	213.00		0.0000184	FREQUENCY	_	
	227.00		0.0000187	FREQUENCY		
	238.00		0.0000593	FREQUENCY		
	260.00		0.0000233	FREQUENCY		
	284.00		0.0001054	FREQUENCY		
	305.00		0.0000184	FREQUENCY		
	352.00		0.0000182	FREQUENCY		
	381.00		0.0000291	FREQUENCY		
	407.00	0.71	0.0000184	FREQUENCY	AND	AMPLITUDE
40	VALUE -					

RMS VALUE = 0.31

M1097 HHV/S787 TYPE III MOBILITY VIBRATION SCHEDULE, FLOOR, VERTICAL

TABLE B-67. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

44	NUMBER	OF BRE	AK POINTS			
	3.00	0.	0177541	FREQUENCY	AND	AMPLITUDE
	6.00	0.	0030381	FREQUENCY	AND	AMPLITUDE
	7.00	0.	0029335	FREQUENCY	AND	AMPLITUDE
	9.00	0.	0109932	FREQUENCY	AND	AMPLITUDE
	13.00	0.	0016933	FREQUENCY	AND	AMPLITUDE
	14.00	0.	0014717	FREQUENCY	AND	AMPLITUDE
	16.00	0.	0043145	FREQUENCY	AND	AMPLITUDE
	23.00	0.	0004903	FREQUENCY	AND	AMPLITUDE
	30.00	0.	0006568			AMPLITUDE
	35.00		0005019			AMPLITUDE
	55.00		0000442			AMPLITUDE
	61.00		0001732			AMPLITUDE
	67.00		0000183			AMPLITUDE
	69.00		0000181			AMPLITUDE
	72.00		0000319			AMPLITUDE
	77.00		0000279			AMPLITUDE
	80.00		0000183			AMPLITUDE
	85.00		0000720			AMPLITUDE
	87.00		0000183			AMPLITUDE
	104.00		0000183			AMPLITUDE
	110.00		0001752			AMPLITUDE
	113.00		0000188 0000205			AMPLITUDE AMPLITUDE
	122.00 129.00		0000203			AMPLITUDE
	141.00		0000029			AMPLITUDE
	165.00		0000183			AMPLITUDE
	174.00		0000407			AMPLITUDE
	186.00		0000212			AMPLITUDE
	193.00		0000436			AMPLITUDE
	204.00		0000188			AMPLITUDE
	223.00		0000532	FREQUENCY	AND	AMPLITUDE
	232.00	0.	0000237	FREQUENCY	AND	AMPLITUDE
	258.00	0.	0000811	FREQUENCY	AND	AMPLITUDE
	277.00	0.	.0000186	FREQUENCY	AND	AMPLITUDE
	281.00	0.	0000738	FREQUENCY	AND	AMPLITUDE
	295.00	0.	0000297	FREQUENCY	AND	AMPLITUDE
	317.00	0.	.0001048	FREQUENCY	AND	AMPLITUDE '
	328.00	0.	0000729	FREQUENCY	AND	AMPLITUDE :
	344.00	0.	.0001061	FREQUENCY	AND	AMPLITUDE
	381.00	0.	.0000201	FREQUENCY	AND	AMPLITUDE
	407.00	0.	.0000641			AMPLITUDE
	420.00	0.	.0000425			AMPLITUDE
	448.00		.0000491			AMPLITUDE
	489.00	0.	.0002214	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.35

M1097 HHV/S787 TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, TRANSVERSE

TABLE B-68. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

20	NUMBER OF	BREAK POINTS	
	3.00	0.0026243	FREQUENCY AND AMPLITUDE
	4.00	0.0014741	FREQUENCY AND AMPLITUDE
	5.00	0.0023167	FREQUENCY AND AMPLITUDE
	7.00	0.0175771	FREQUENCY AND AMPLITUDE
	13.00	0.0005352	FREQUENCY AND AMPLITUDE
	16.00	0.0013013	FREQUENCY AND AMPLITUDE
	20.00	0.0002738	FREQUENCY AND AMPLITUDE
	30.00	0.0001109	FREQUENCY AND AMPLITUDE
	33.00	0.0001973	FREQUENCY AND AMPLITUDE
	52.00	0.0000071	FREQUENCY AND AMPLITUDE
	62.00	0.0000212	FREQUENCY AND AMPLITUDE
	68.00	0.0000072	FREQUENCY AND AMPLITUDE
	73.00	0.0000182	FREQUENCY AND AMPLITUDE
	75.00	0.0000072	FREQUENCY AND AMPLITUDE
	199.00	0.0000071	FREQUENCY AND AMPLITUDE
	201.00	0.0000119	FREQUENCY AND AMPLITUDE
	204.00	0.0000072	FREQUENCY AND AMPLITUDE
	358.00	0.0000071	FREQUENCY AND AMPLITUDE
	417.00	0.0000112	FREQUENCY AND AMPLITUDE
	489.00	0.0002167	FREQUENCY AND AMPLITUDE

RMS VALUE = U.26

M1097 HHV/S787 TYPE III MOBILITY VIBRATION SHELTER, WALLS, LONGITUDINAL

TABLE B-69. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

34	NUMBER OF	BREAK POINTS			
	3.00	0.0384177	FREQUENCY	AND	AMPLITUDE
	4.00	0.0272642	FREQUENCY	AND	AMPLITUDE
	6.00	0.0041346	FREQUENCY	AND	AMPLITUDE
	7.00	0.0088748	FREQUENCY	AND	AMPLITUDE
	9.00	0.0047574	FREQUENCY	AND	AMPLITUDE
	11.00	0.0055598	FREQUENCY	AND	AMPLITUDE
	13.00	0.0021483	FREQUENCY	AND	AMPLITUDE
	16.00	0.0037654	FREQUENCY	AND	AMPLITUDE
	17.00	0.0025502	FREQUENCY	AND	AMPLITUDE
	20.00	0.0032725	FREQUENCY	AND	AMPLITUDE
	36.00	0.0002831	FREQUENCY	AND	AMPLITUDE
	39.00	0.0005200	FREQUENCY	AND	AMPLITUDE
	49.00	0.0001279	FREQUENCY	AND	AMPLITUDE
	54.00	0.0002041	FREQUENCY	AND	AMPLITUDE
	66.00	0.0001888	FREQUENCY	AND	AMPLITUDE
	69.00	0.0000226	FREQUENCY	AND	AMPLITUDE
	75.00	0.0000335	FREQUENCY	AND	AMPLITUDE
	81.00	0.0000197	FREQUENCY	AND	AMPLITUDE
	85.00	0.0000839	FREQUENCY	AND	AMPLITUDE
	87.00	0.0000132	FREQUENCY	AND	AMPLITUDE
	101.00	0.0000132	FREQUENCY	AND	AMPLITUDE
	105.00	0.0003929	FREQUENCY	AND	AMPLITUDE
	111.00	0.0000129	FREQUENCY	AND	AMPLITUDE
	129.00	0.0000129	FREQUENCY	AND	AMPLITUDE
	134.00	0.0000357	FREQUENCY	AND	AMPLITUDE
	139.00	0.0000129			AMPLITUDE
	154.00	0.0000129	FREQUENCY	AND	AMPLITUDE
	176.00	0.0001383			AMPL!TUDE
	180.00	0.0000156			AMPLITUDE
	192.00	G.0000373	FREQUENCY	AND	AMPLITUDE
	195.00	0.0000129			AMPLITUDE
	229.00	0.0000129			AMPLITUDE
	268.00	0.0000966			AMPLITUDE
	277.00	0.0000129	FREQUENCY	AND	AMPLITUDE
	ALLIE - 0 /				

MASTER TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, VERTICAL

TABLE B-70. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

47	NUMBER	OF	BREAK POINT	S		
	3.00		0.0098675	FREQUENCY	AND	AMPLITUDE
	7.00		0.0028911	FREQUENCY	AND	AMPLITUDE
	9.00		0.0058992	FREQUENCY	AND	AMPLITUDE
	11.00		0.0047242	FREQUENCY	AND	AMPLITUDE
	14.00		0.0014505	FREQUENCY	AND	AMPLITUDE
	16.00		0.0022095	FREQUENCY	AND	AMPLITUDE
	17.00		0.0014676	FREQUENCY	AND	AMPLITUDE
	19.00		0.0071964			AMPLITUDE
•	21.00		0.0025721			AMPLITUDE
	24.00		0.0091989			AMPLITUDE
	25.00		0.0045084		•	AMPLITUDE
	27.00		0.0064776			AMPLITUDE
	35.00		0.0003484			AMPLITUDE
	41.00		0.0011085			AMPLITUDE
	44.00		0.0005245			AMPLITUDE
	47.00		0.0024835	FREQUENCY		
	52.00		0.0001335	FREQUENCY		
	57.00		0.0001400	FREQUENCY		
	66.00		0.0022618			AMPLITUDE
	69.00		0.0002314	FREQUENCY		
	75.00		0.0001335			AMPLITUDE
	79.00		0.0002541			AMPLITUDE
	81.00		0.0001335			AMPLITUDE
	97.00		0.0003484			AMPLITUDE
	101.00		0.0001367			AMPLITUDE
	107.00		0.0023700			AMPLITUDE
	115.00		0.0001688			AMPLITUDE
	117.00		0.0001009	FREQUENCY	AND	AMPLITUDE
	125.00		0.0002790	FREQUENCY	AND	AMPLITUDE
	135.00		0.0000370	FREQUENCY	AND	AMPLITUDE
	140.00		0.0000929	FREQUENCY	AND	AMPLITUDE
	144.00		0.0000285	FREQUENCY	AND	AMPLITUDE
	153.00		0.0000382	FREQUENCY	AND	AMPLITUDE
	158.00		0.0000101	FREQUENCY	AND	AMPLITUDE
	176.00		0.0000180	FREQUENCY	AND	AMPLITUDE
	181.00		0.0000099	FREQUENCY	AND	AMPLITUDE
	192.00		0.0000292	FREQUENCY	AND	AMPLITUDE
	208.00		0.0000113	FREQUENCY	AND	AMPLITUDE
	225.00		0.0000269	FREQUENCY	AND	AMPLITUDE
	238.00		0.0000123	FREQUENCY	AND	AMPLITUDE
	258.00		0.0000410	FREQUENCY	AND	AMPLITUDE
	288.00		0.0000169	FREQUENCY	AND	AMPLITUDE
	347.00		0.0001592	FREQUENCY	AND	AMPLITUDE
	388.00		0.0000099	FREQUENCY	AND	AMPLITUDE
	413.00		0.0000344	FREQUENCY	AND	AMPLITUDE
	441.00		0.0000248	FREQUENCY	AND	AMPLITUDE
	493.00		0.0001134	FREQUENCY	AND	AMPLITUDE
C MALLI	- 0	17				

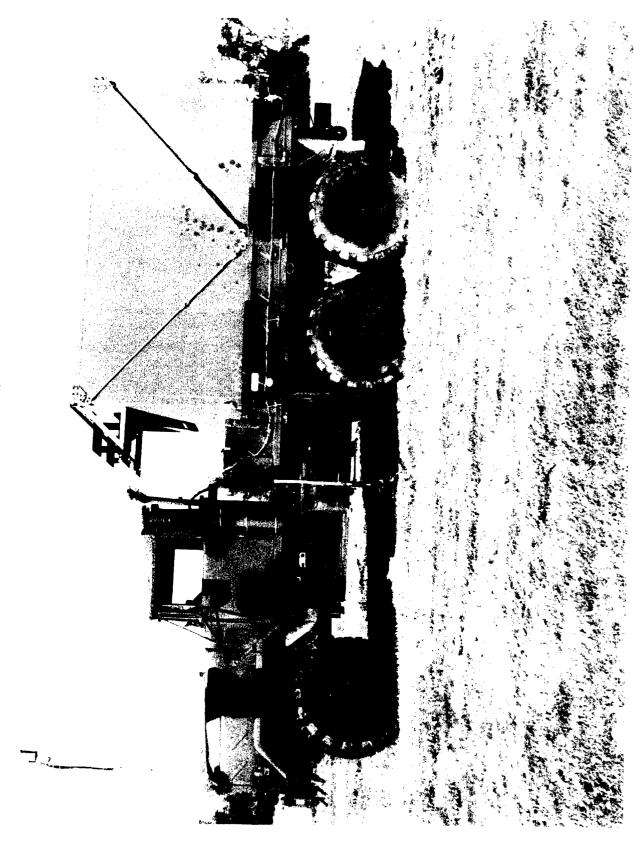
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MASTER TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, TRANSVERSE

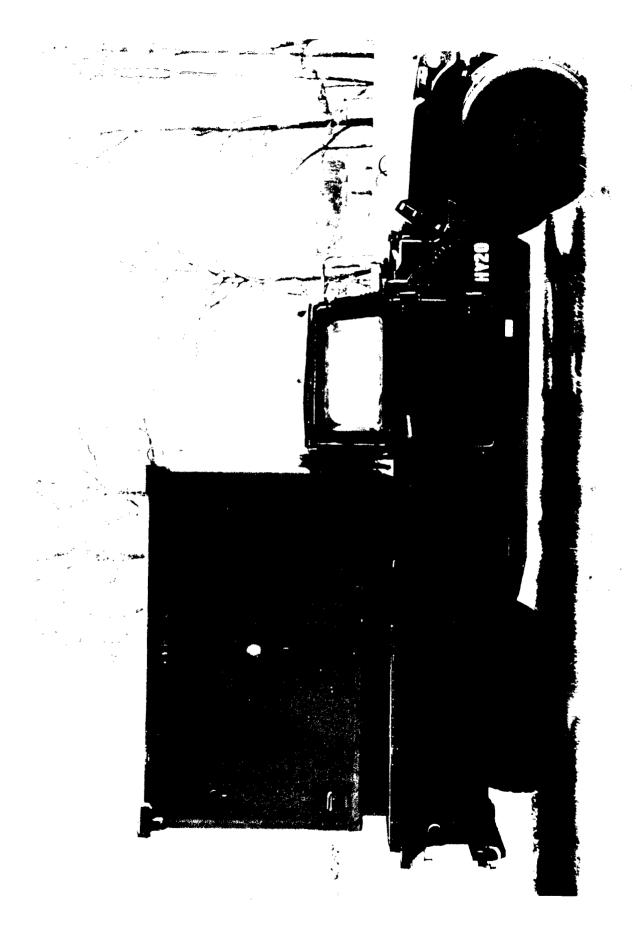
TABLE B-71. SHELTER WALL VIBRATION SCHEDULE BREAKPOINTS

39	NUMBER OF	BREAK POINTS			
	3.00	0.0145783	FREQUENCY	AND	AMPLITUDE
	4.00	0.0222072	FREQUENCY	AND	AMPLITUDE
	5.00	0.0059954	FREQUENCY	AND	AMPLITUDE
	6.00	0.0067917	FREQUENCY	AND	AMPLITUDE
	7.00	0.0170375	FREQUENCY	AND	AMPLITUDE
	13.00	0.0014741	FREQUENCY	AND	AMPLITUDE
	15.00	0.0017499	FREQUENCY	AND	AMPLITUDE
	17.00	0.0008026	FREQUENCY	AND	AMPLITUDE
	22.00	0.0043896	FREQUENCY	AND	AMPLITUDE
	25.00	0.0011851	FREQUENCY	AND	AMPLITUDE
	29.00	0.0056330	FREQUENCY	AND	AMPLITUDE
	32.00	0.0006158	FREQUENCY	AND	AMPLITUDE
	36.00	0.0019516	FREQUENCY	AND	AMPLITUDE
	40.00	0.0003739	FREQUENCY	AND	AMPLITUDE
	52.00	0.0001797	FREQUENCY	AND	AMPLITUDE
	55.00	0.0003101	FREQUENCY	AND	AMPLITUDE
	60.00	0.0000877	FREQUENCY	AND	AMPLITUDE
	66.00	0.0002493	FREQUENCY	AND	AMPLITUDE
	73.00	0.0000188	FREQUENCY	AND	AMPLITUDE
	81.00	0.0001688	FREQUENCY	AND	AMPLITUDE
	87.00	0.0000241	FREQUENCY	AND	AMPL I TUDE
	99.00	0.0000212	FREQUENCY	AND	AMPLITUDE
	126.00	0.0006976	FREQUENCY	AND	AMPLITUDE
	141.00	0.0000190	FREQUENCY	AND	AMPLITUDE
	153.00	0.0000188	FREQUENCY	AND	AMPLITUDE
	159.00	0.0000072	FREQUENCY	AND	AMPLITUDE
	176.00	0.0000585	FREQUENCY	AND	AMPLITUDE
	178.00	0.0000072			AMPLITUDE
	199.00	0.0000071	FREQUENCY		
	211.00	0.0000219			AMPLITUDE
	214.00	0.0000076	FREQUENCY	AND	AMPLITUDE
	252.00	0.0000076			AMPLITUDE
	258.00	0.0000112			AMPLITUDE
	266.00	0.0000075			AMPLITUDE
	330.00	0.0000075	FREQUENCY		
	344.00	0.0000226	FREQUENCY		
	358.00	0.0000074			AMPLITUDE
	420.00	0.0000096			AMPLITUDE
	489.00	0.0002167	FREQUENCY	AND	AMPLITUDE

RMS VALUE = 0.41

MASTER TYPE III MOBILITY VIBRATION SCHEDULE, WALLS, LONGITUDINAL





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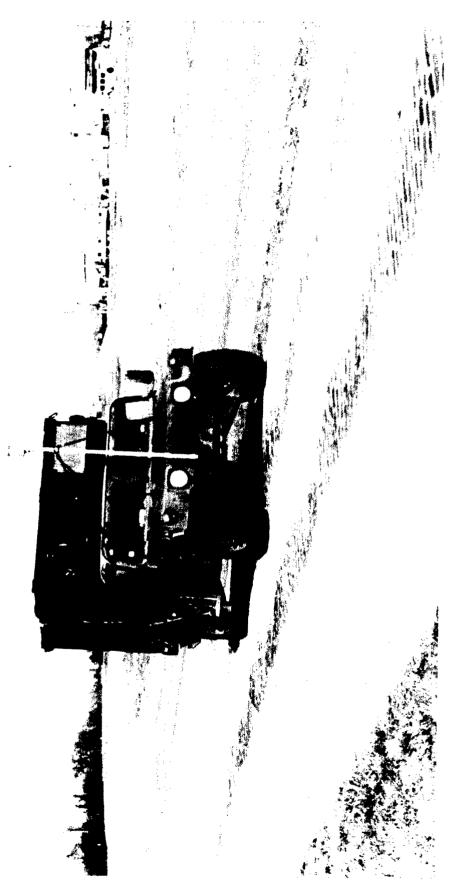


Figure B-4. M1022 dolly set with 20-foot nonexpandable shelter.

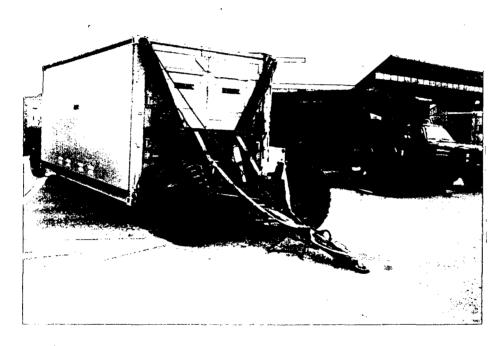
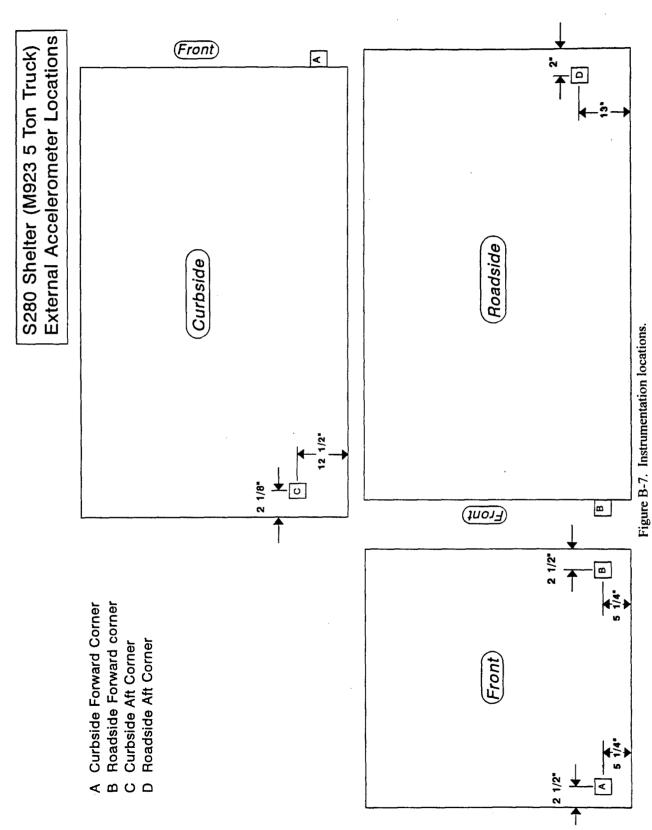


Figure B-5. M1022 dolly set with two-sided expandable shelter.

Figure B-6. S280 shelter mounted on an M832 dolly set.



B-80

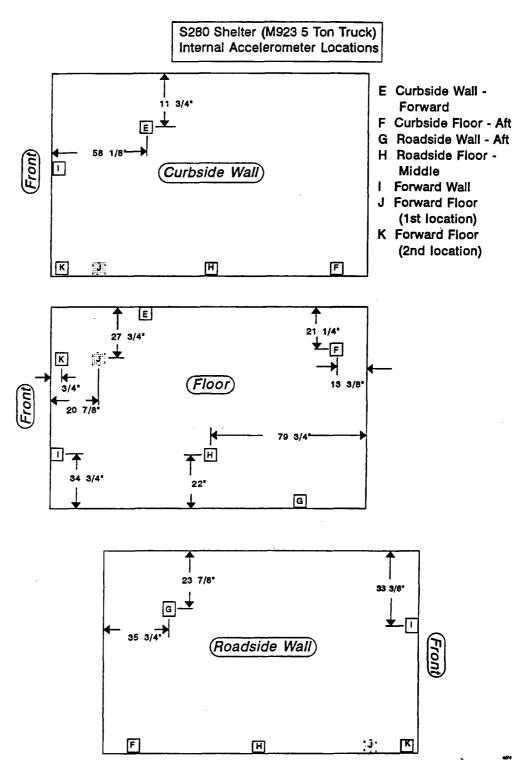
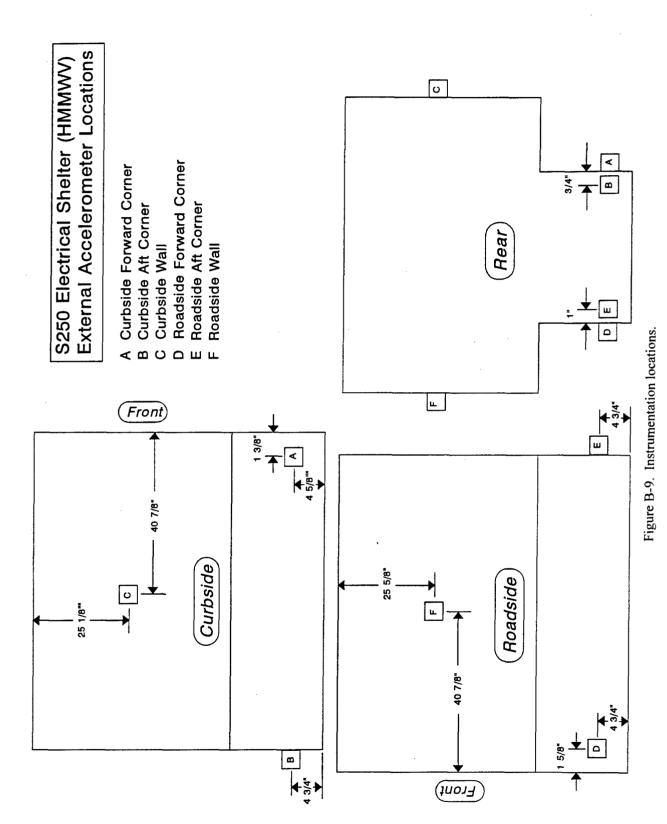


Figure B-8. Instrumentation loctions.

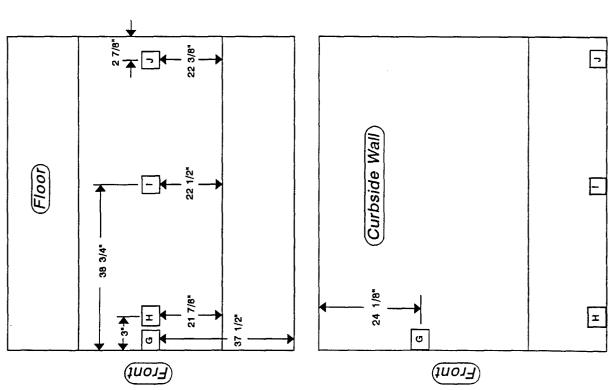


B-82

Figure B-10. Instrumentation locations.



- G Forward Wall H Forward Floor
 - I Middle Floor J Aft Floor



B-83

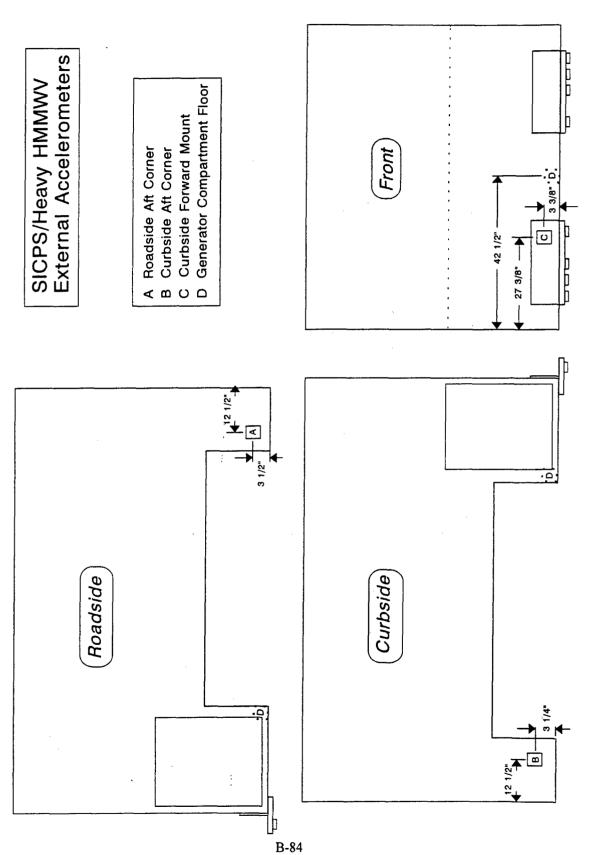


Figure B-11. Instrumentation locations.

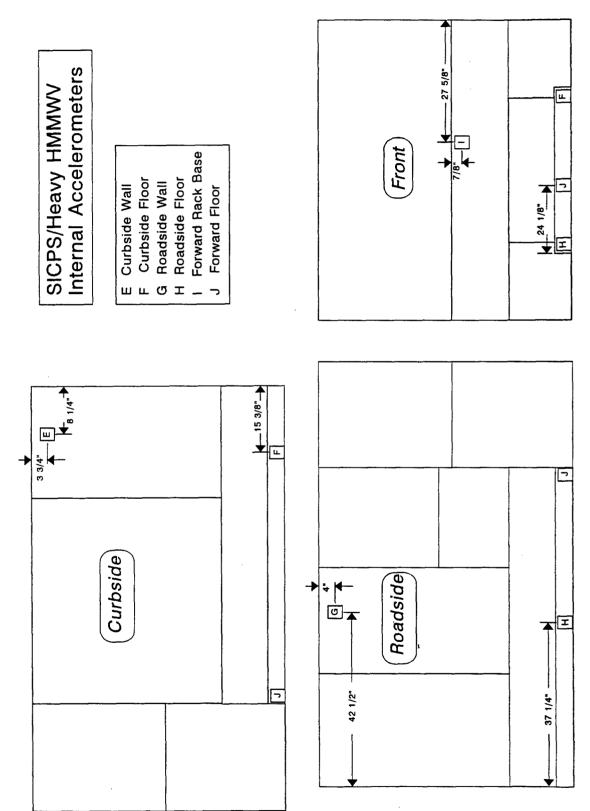


Figure B-12. Instrumentation locations.

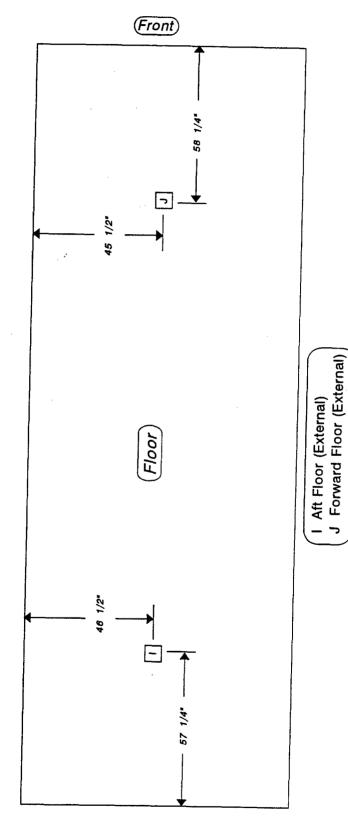
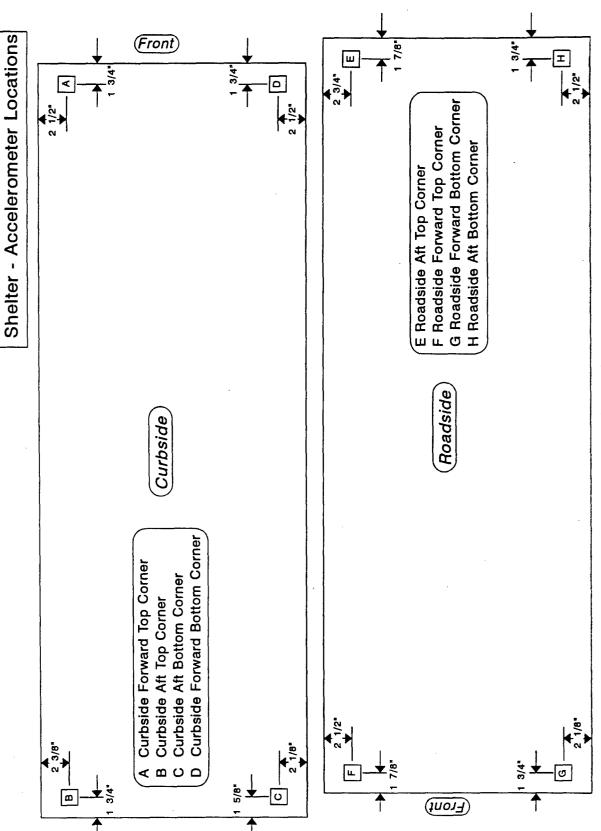


Figure B-13. Instrumentation locations.



1022 Dolly Set w/ 20' Expandable

Figure B-14. Instrumentation locations.

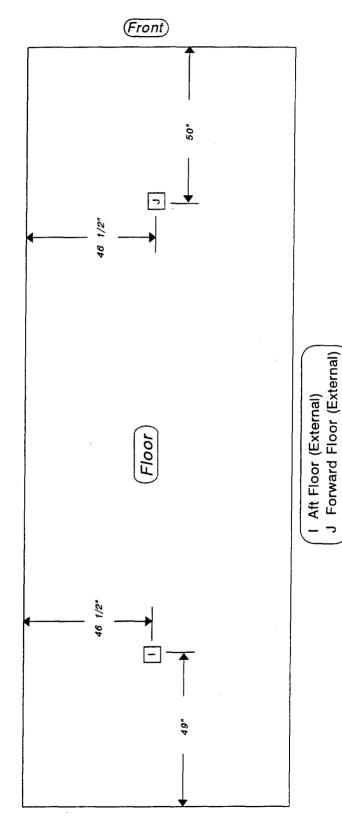
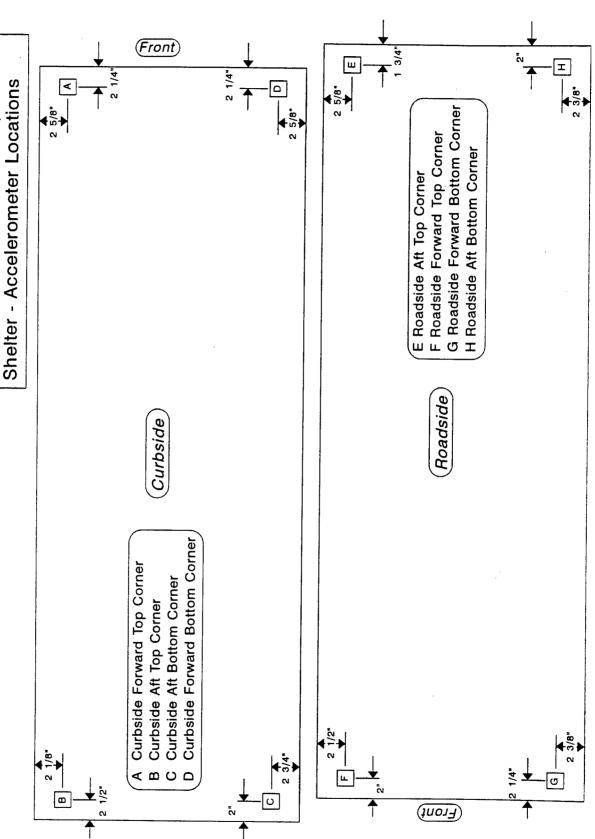


Figure B-15. Instrumentation locations.



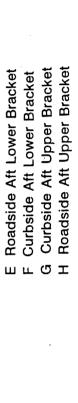
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1022 Dolly Set w/ 20' Non-Expandable

Figure B-16. Instrumentation locations.

External Accelerometer Locations M832 Dolly Set w/S280 Shelter

A Curbside Forward Lower Backet B Roadside Forward Lower Bracket C Roadside Forward Upper Bracket D Curbside Forward Upper Bracket



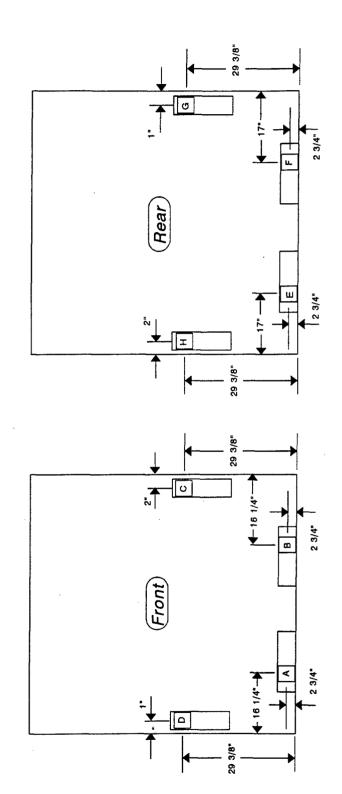
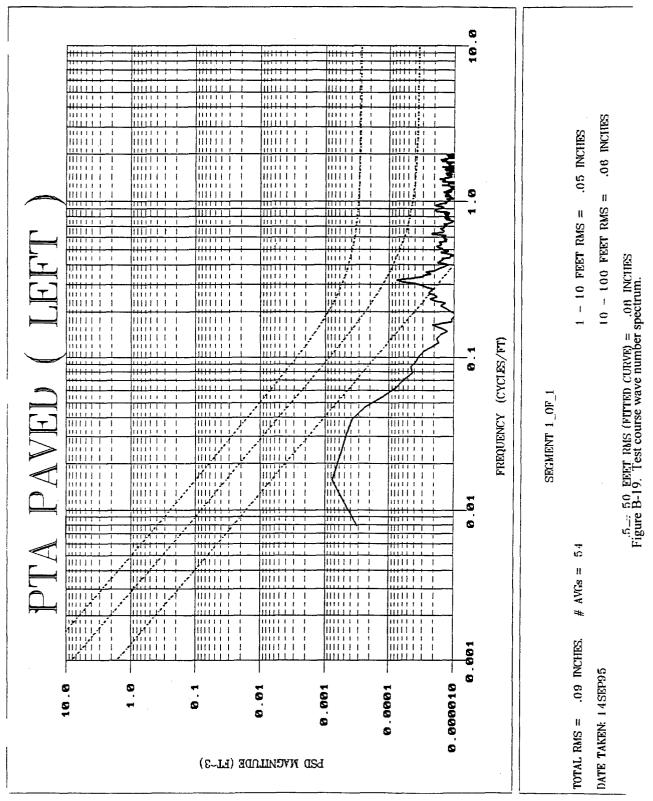


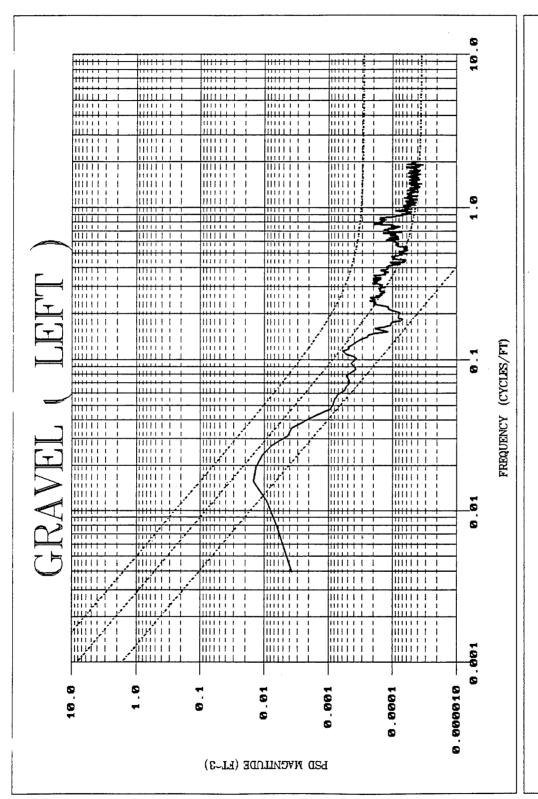
Figure B-17. Instrumentation locations.

Figure B-18. Instrumentation locations.

Front

M832 Dolly Set w/S280 Shelter - Floor Accelerometer Locations





SEGMENT ENTIRE

68

II

AVGs

.27 INCHES.

TOTAL RMS =

DATE TAKEN: 15SEP94

.

1 - 10 FEET RMS = .13 INCHES

10 - 100 FEET RMS = .21 INCHES

Figure B-20. Test course wave number spectrum.

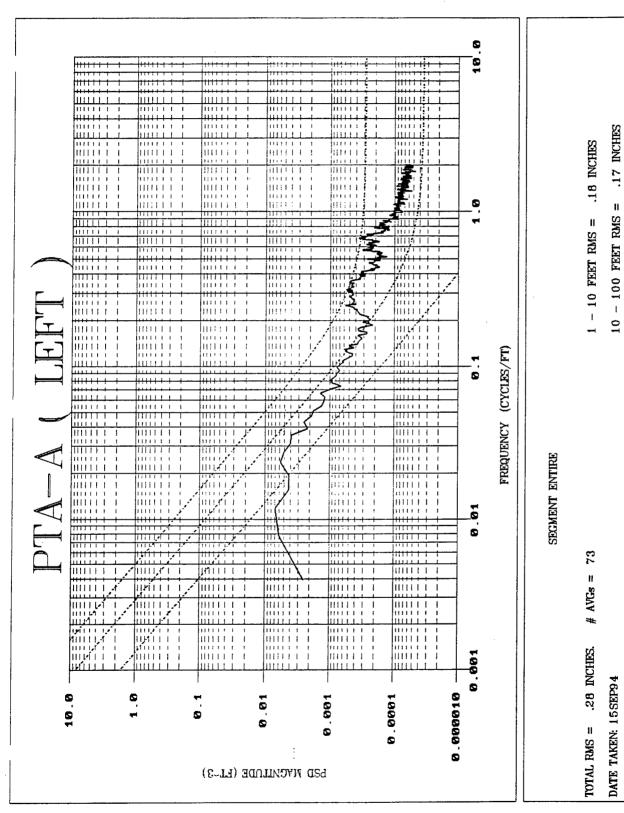


Figure B-21. Test course wave number spectrum.

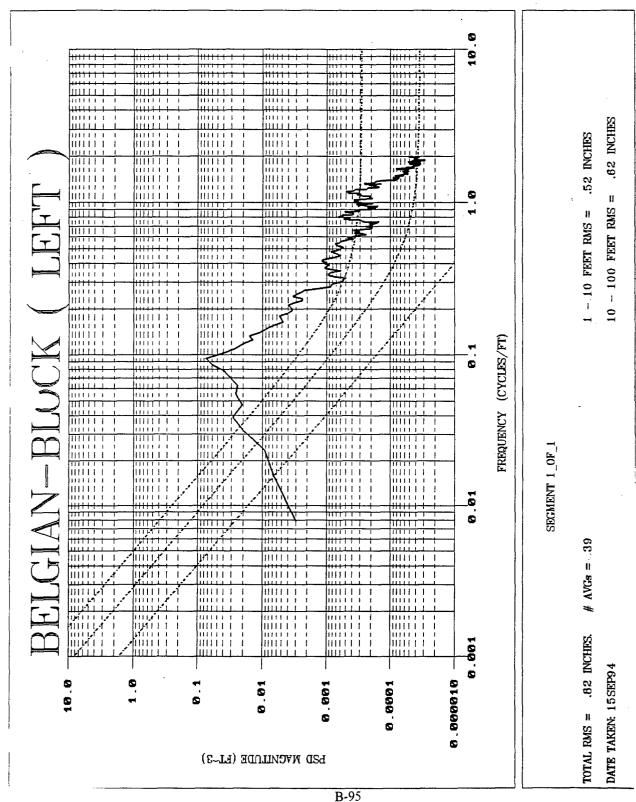
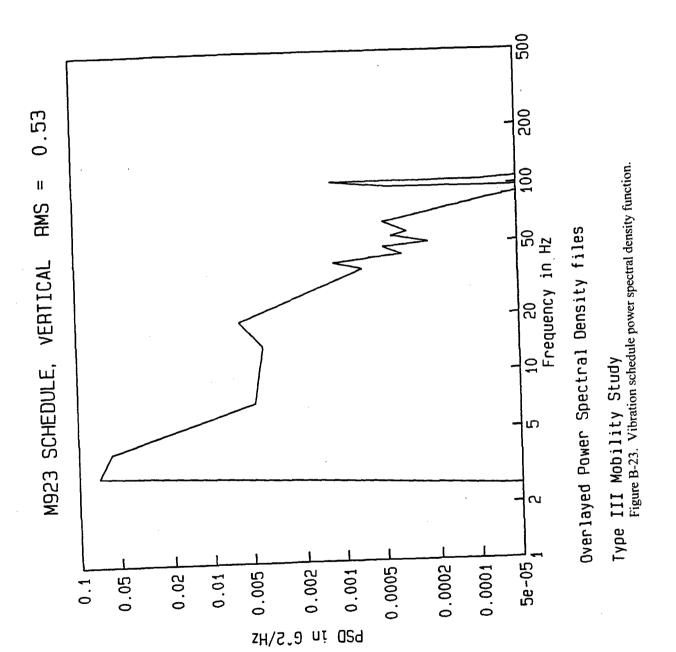
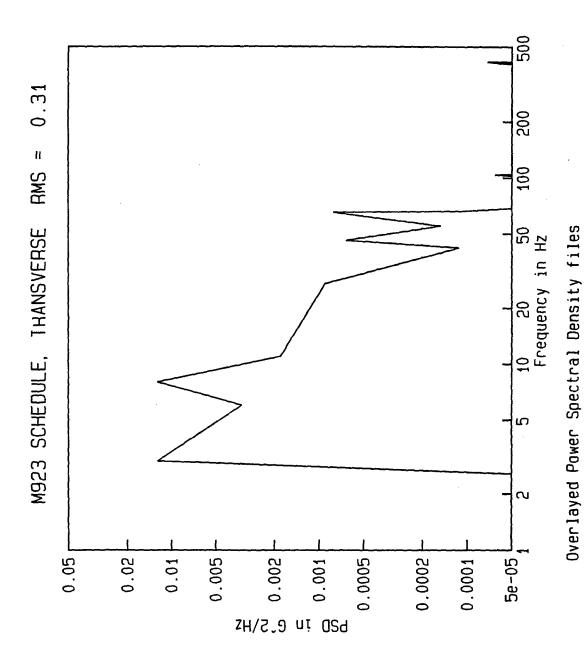
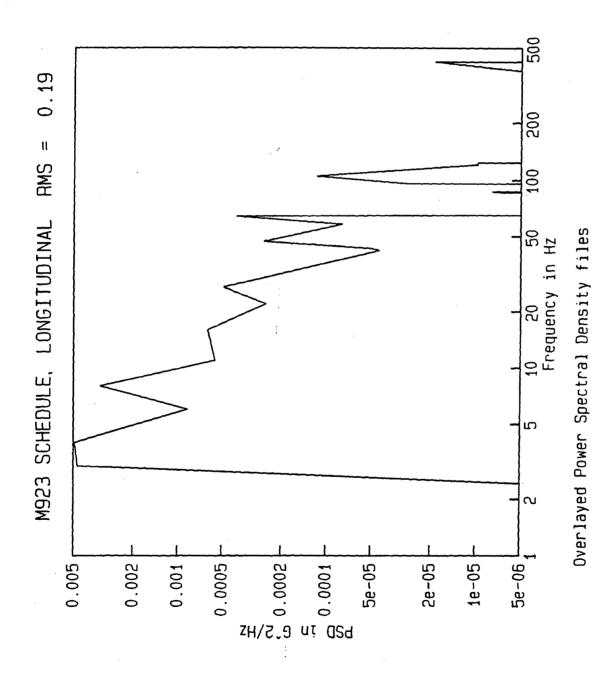


Figure B-22. Test course wave number spectrum.

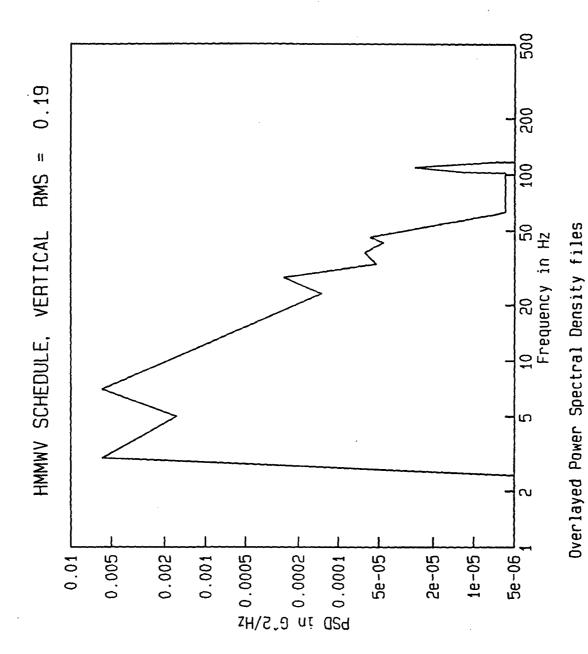




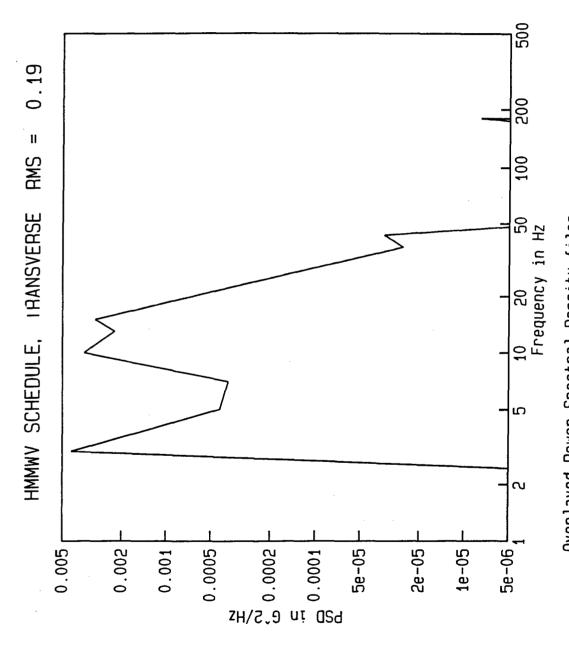
Type III Mobility Study
Figure B-24. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-25. Vibration schedule power spectral density function.

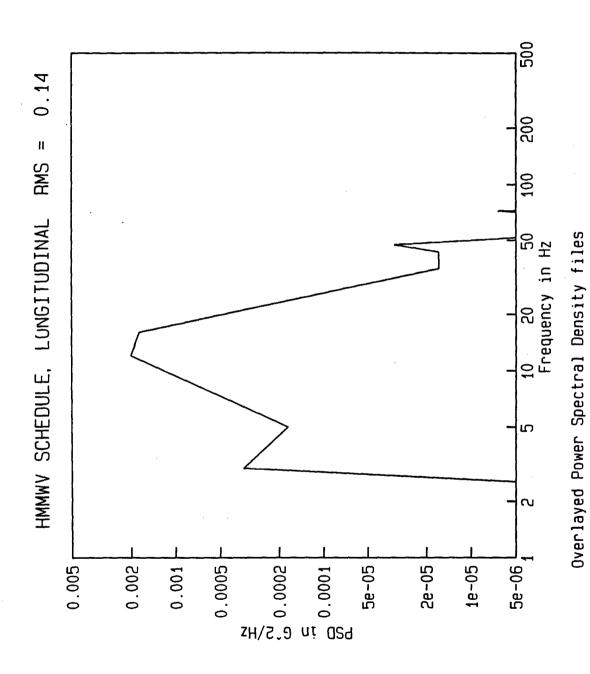


Type III Mobility Study
Figure B-26. Vibration schedule power spectral density function.

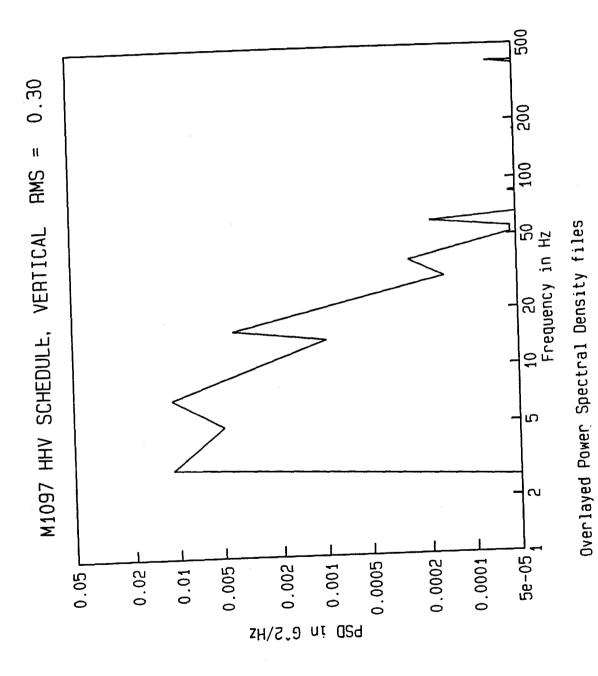


Overlayed Power Spectral Density files Type III Mobility Study

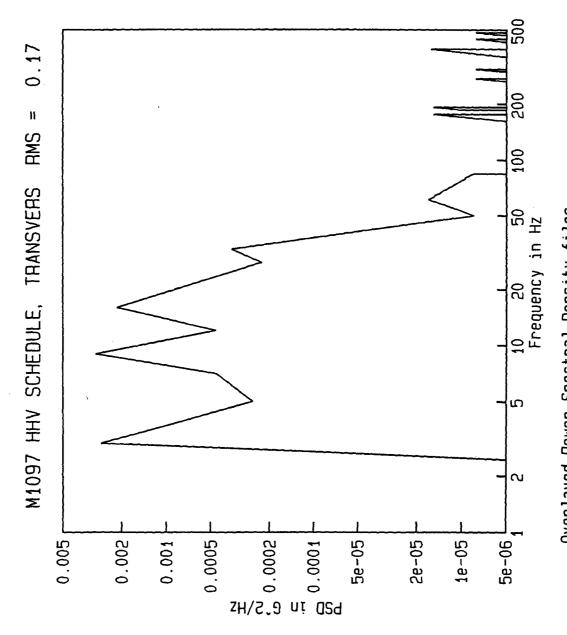
Figure B-27. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-28. Vibration schedule power spectral density function.

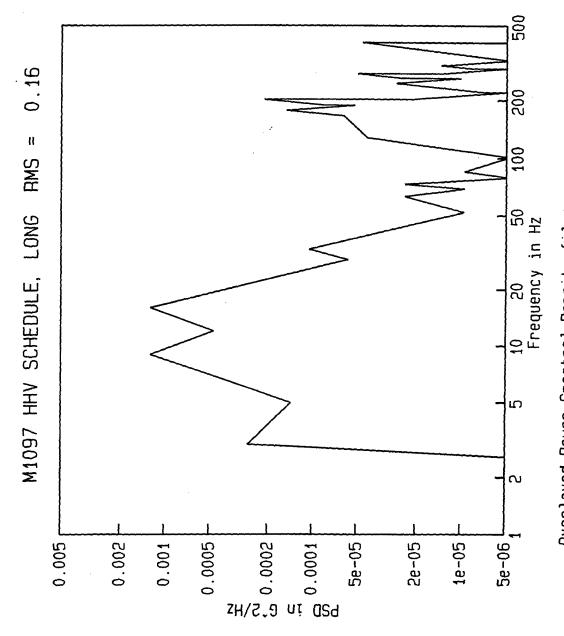


Type III Mobility Study
Figure B-29. Vibration schedule power spectral density function.



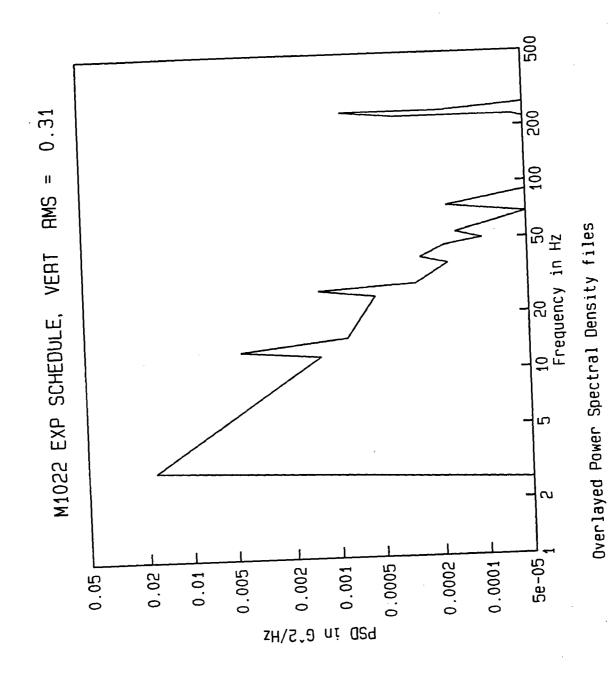
Overlayed Power Spectral Density files Type III Mobility Study

Figure B-30. Vibration schedule power spectral density function.

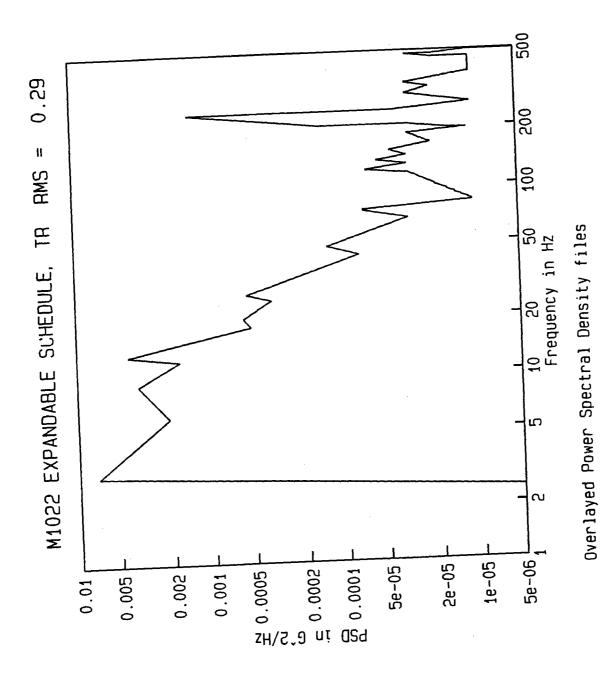


Overlayed Power Spectral Density files Type III Mobility Study

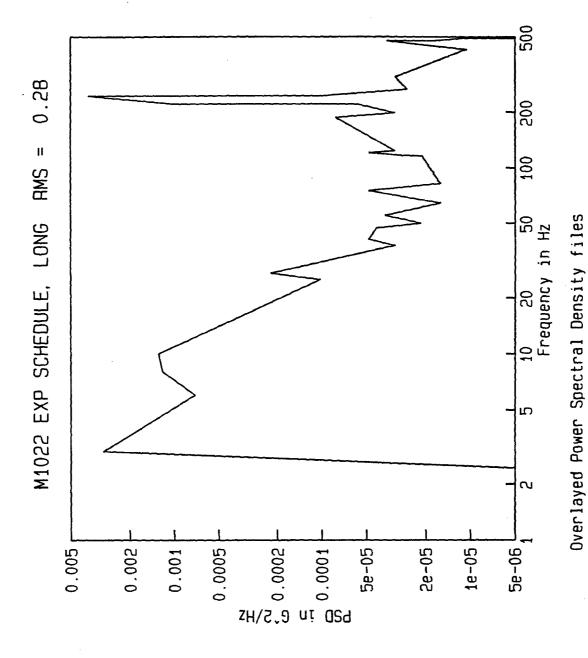
Figure B-31. Vibration schedule power spectral density function.



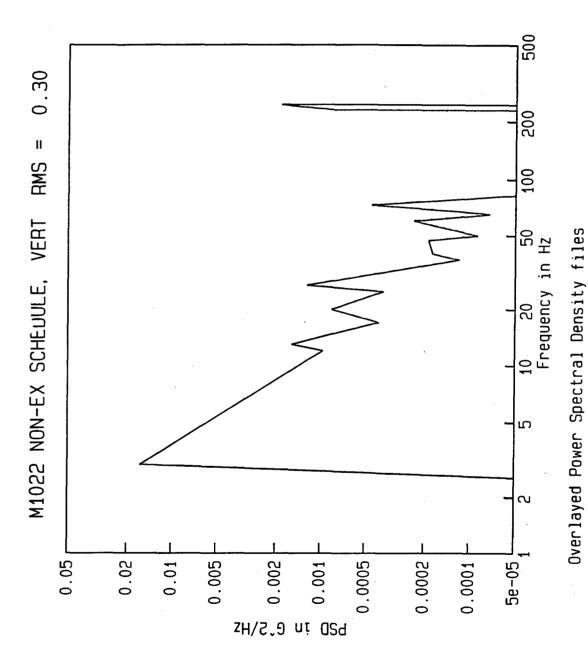
Type III Mobility Study
Figure B-32. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-33. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-34. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-35. Vibration schedule power spectral density function.

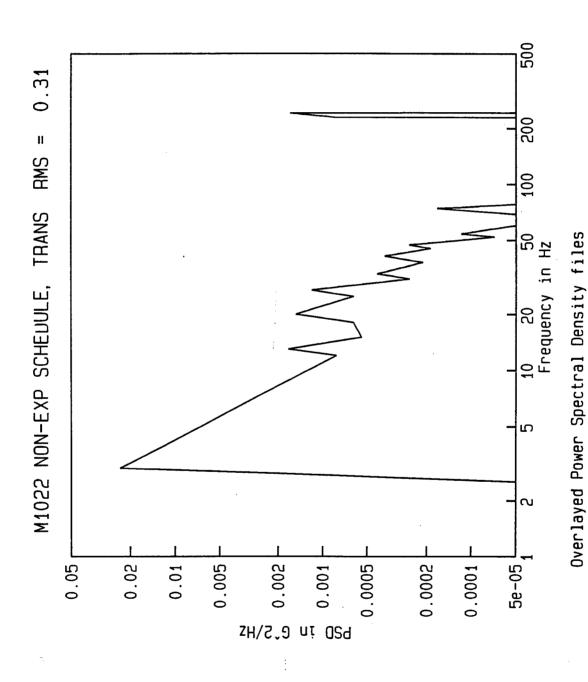
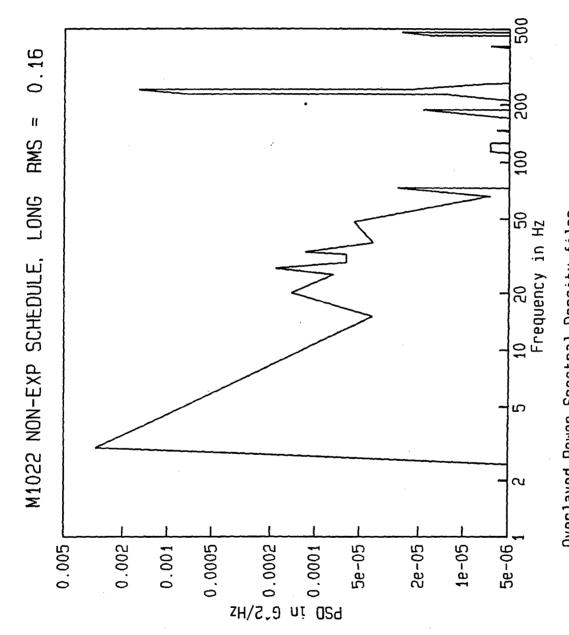


Figure B-36. Vibration schédule power spectral density function.

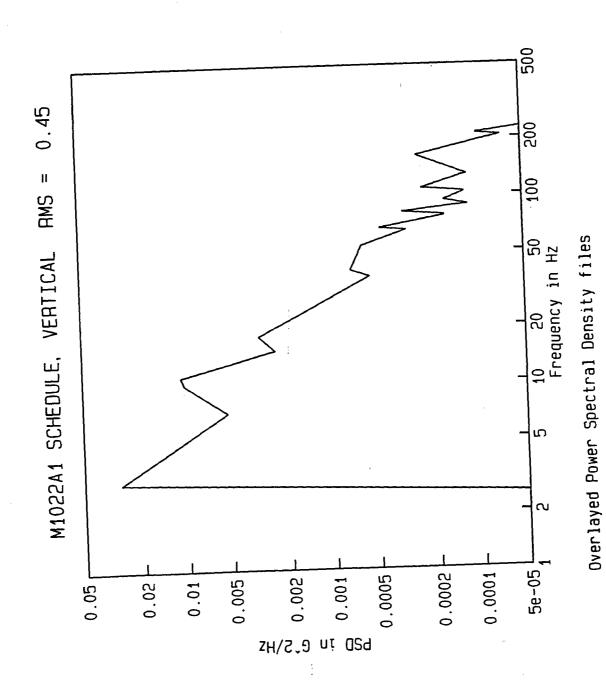
Type III Mobility Study

B-109

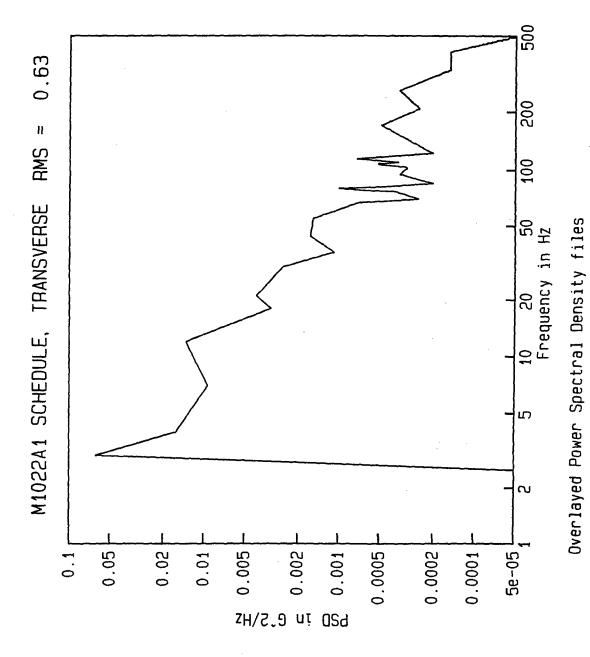


Overlayed Power Spectral Density files Type III Mobility Study

Figure B-37. Vibration schedule power spectral density function.

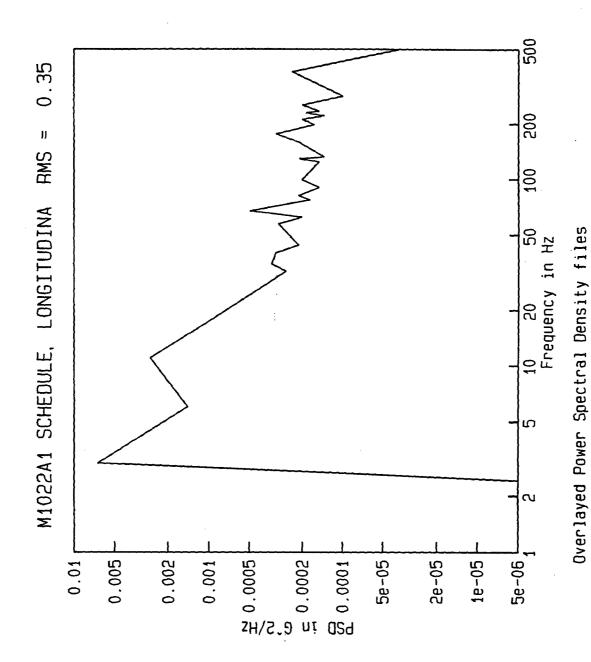


Type III Mobility Study
Figure B-38. Vibration schedule power spectral density function.

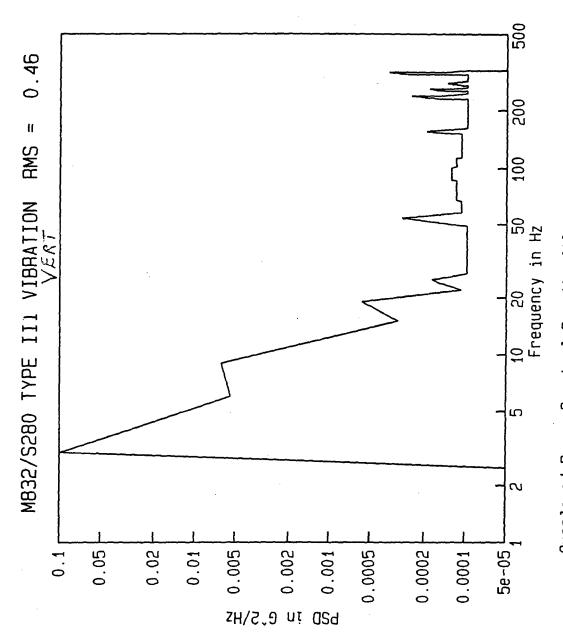


Type III Mobility Study

Figure B-39. Vibration schedule power spectral density function.

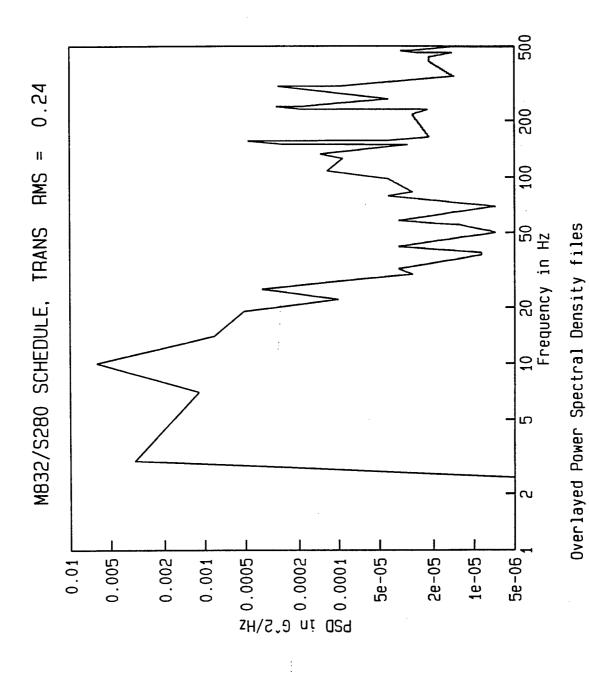


Type III Mobility Study
Figure B-40. Vibration schedule power spectral density function.

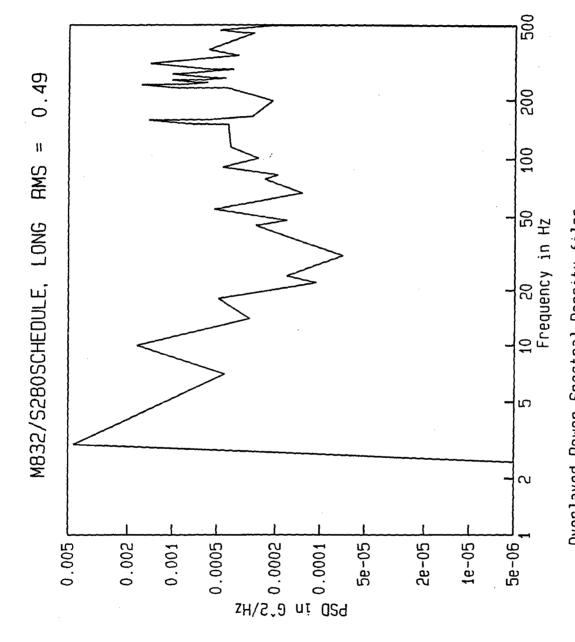


Overlayed Power Spectral Density files Type III Mobility Study

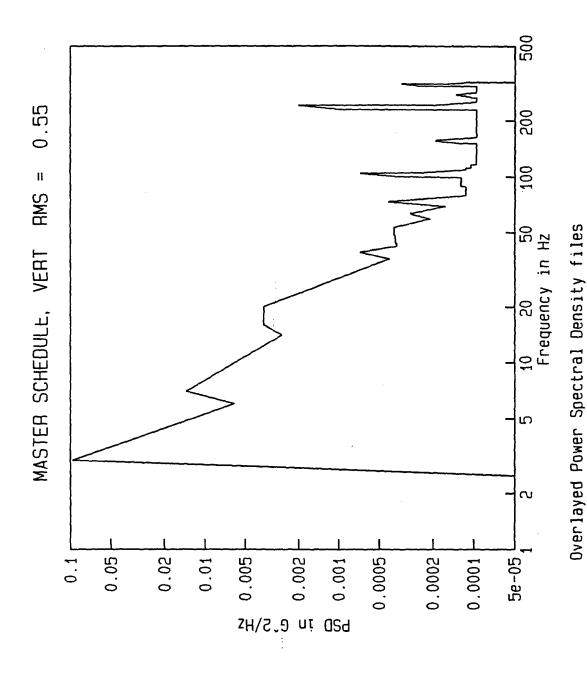
Figure B-41. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-42. Vibration schedule power spectral density function.

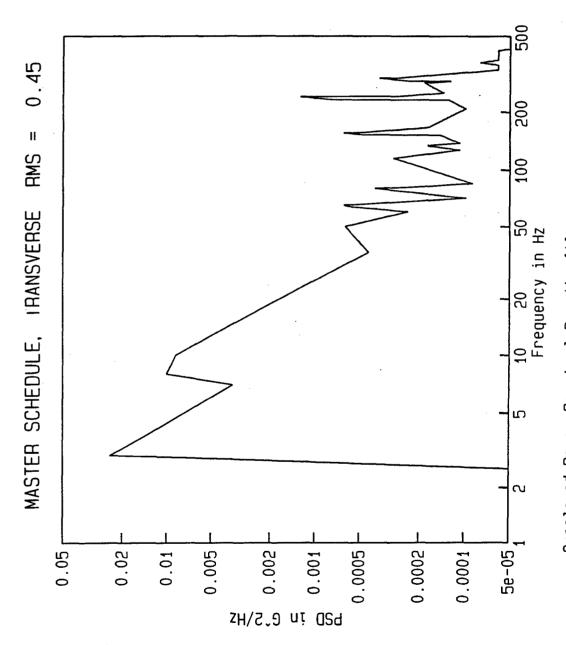


Overlayed Power Spectral Density files
Type III Mobility Study
Figure B-43. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-44. Vibration schedule power spectral density function.

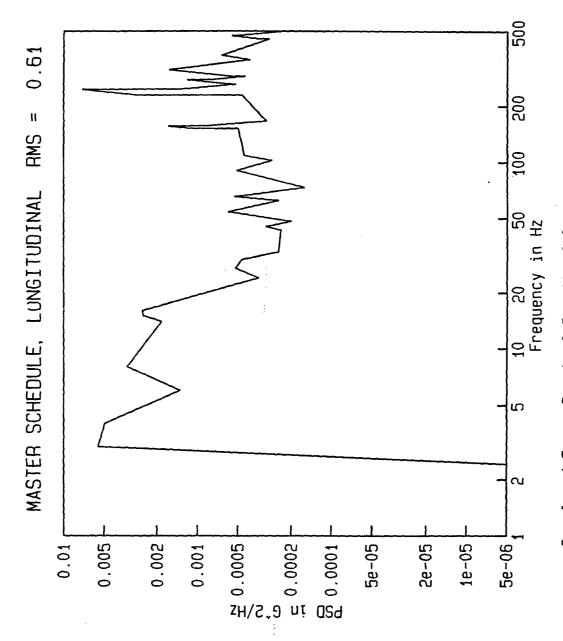
B-117



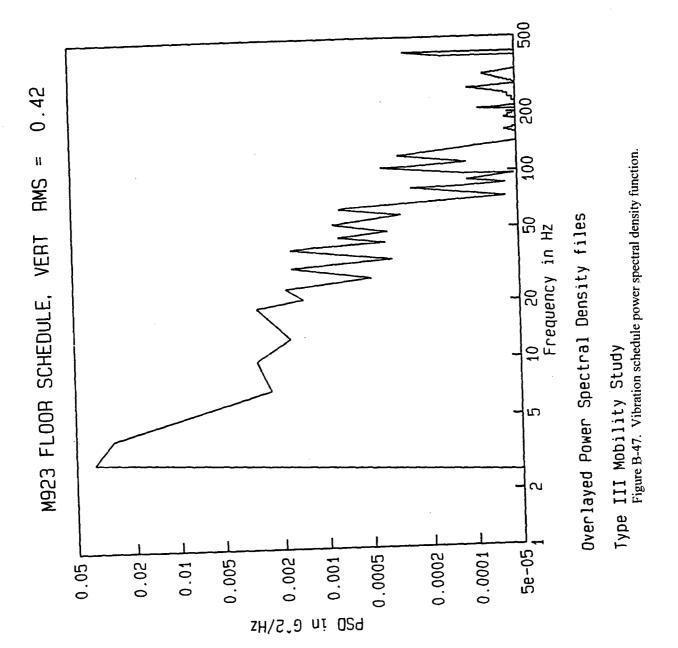
Overlayed Power Spectral Density files

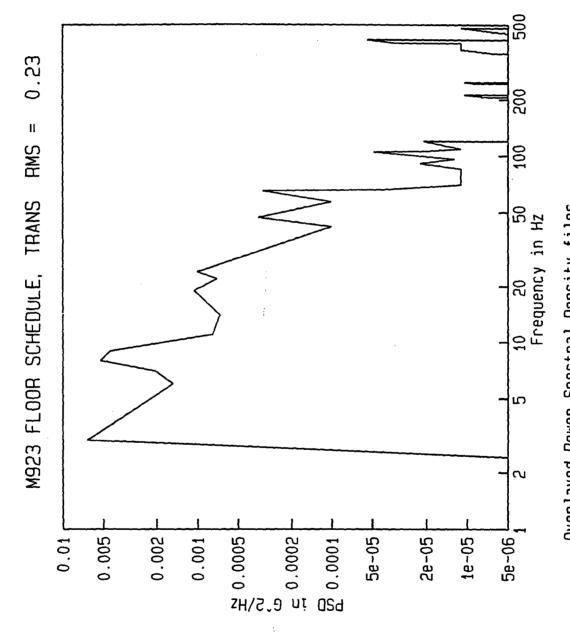
Type III Mobility Study

Figure B-45. Vibration schedule power spectral density function.

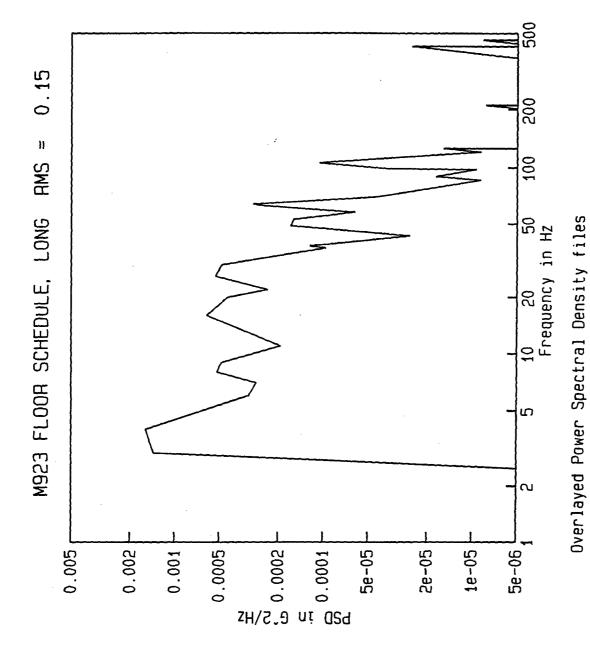


Overlayed Power Spectral Density files
Type III Mobility Study
Figure B-46. Vibration schedule power spectral density function.





Overlayed Power Spectral Density files
Type III Mobility Study
Figure B-48. Vibration schedule power spectral density function.



Type III Mobility Study

Figure B-49. Vibration schedule power spectral density function.

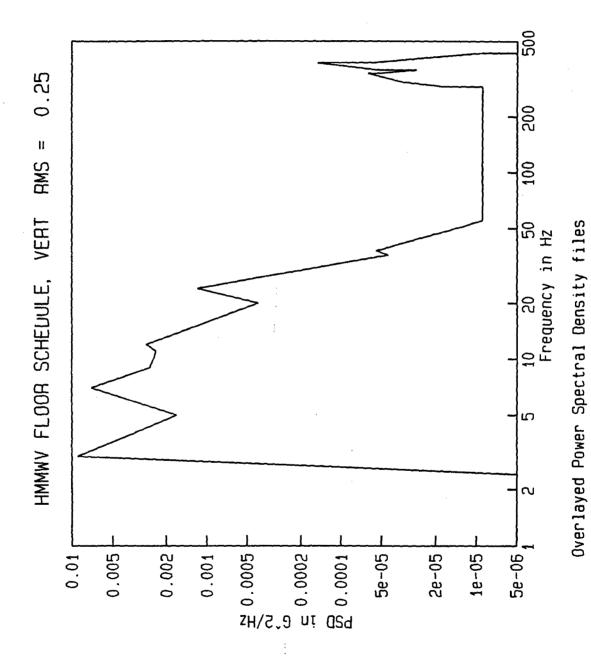
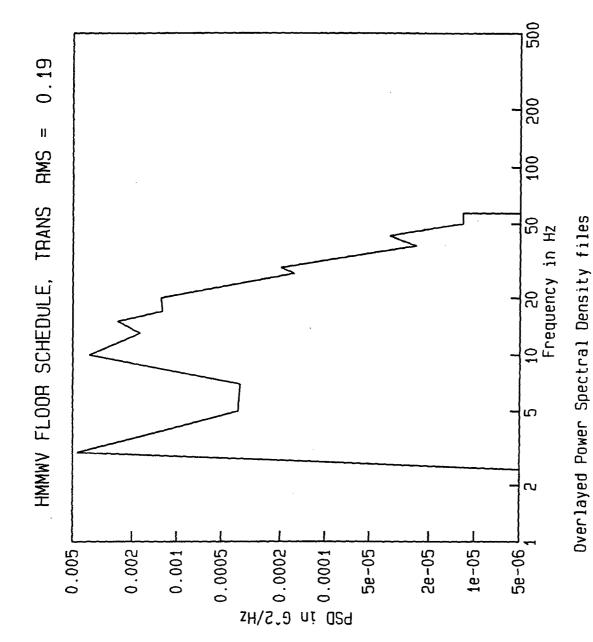


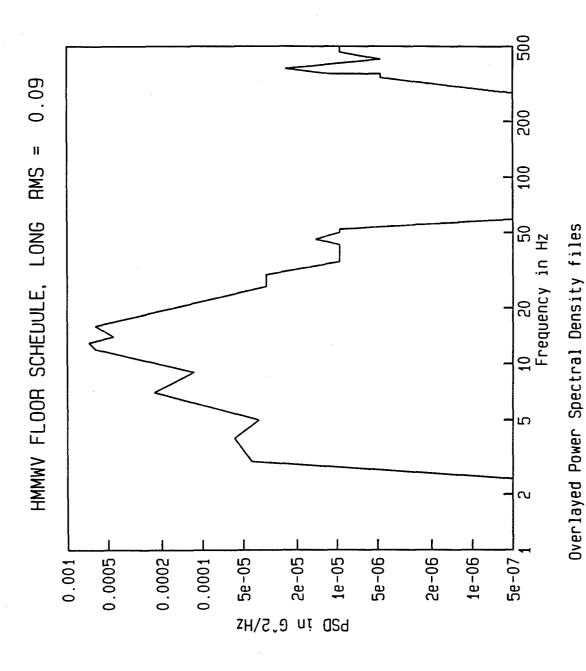
Figure B-50. Vibration schedule power spectral density function.

Type III Mobility Study

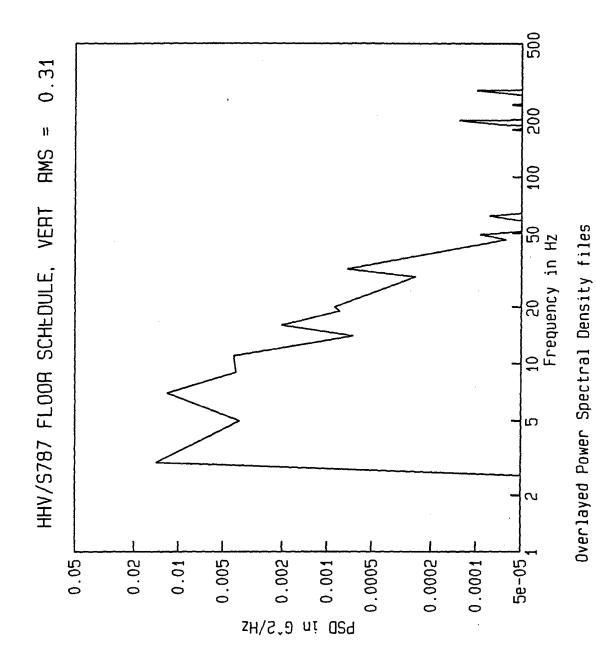
B-123



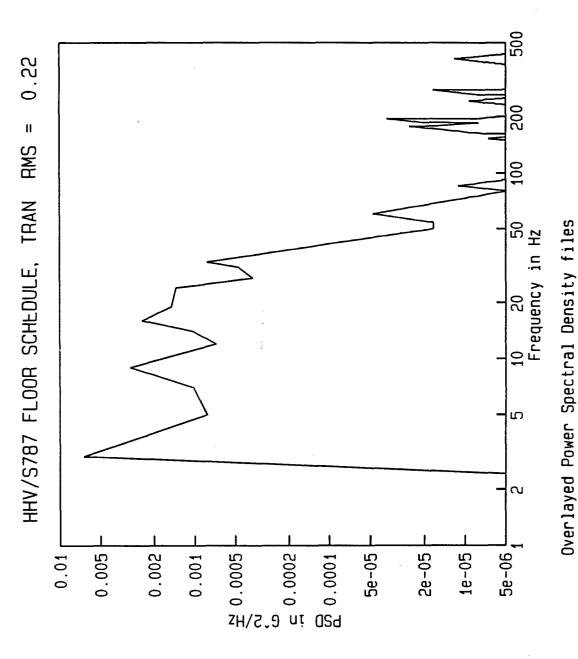
Type III Mobility Study
Figure B-51. Vibration schedule power spectral density function.



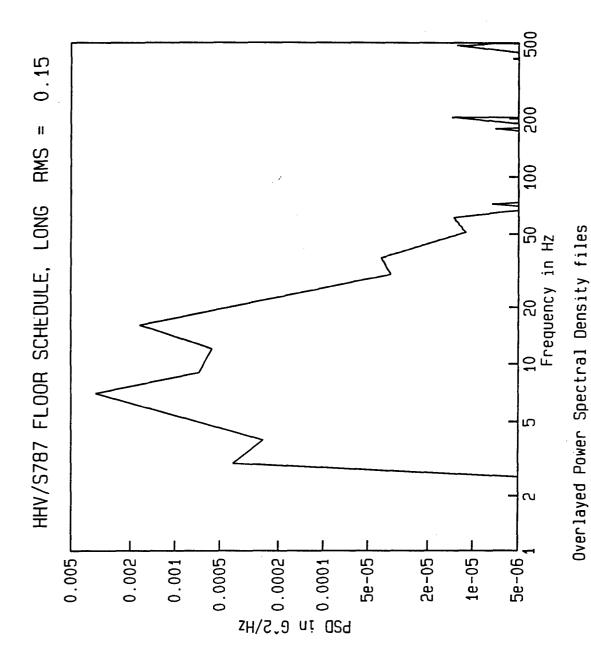
Type III Mobility Study
Figure B-52. Vibration schedule power spectral density function.



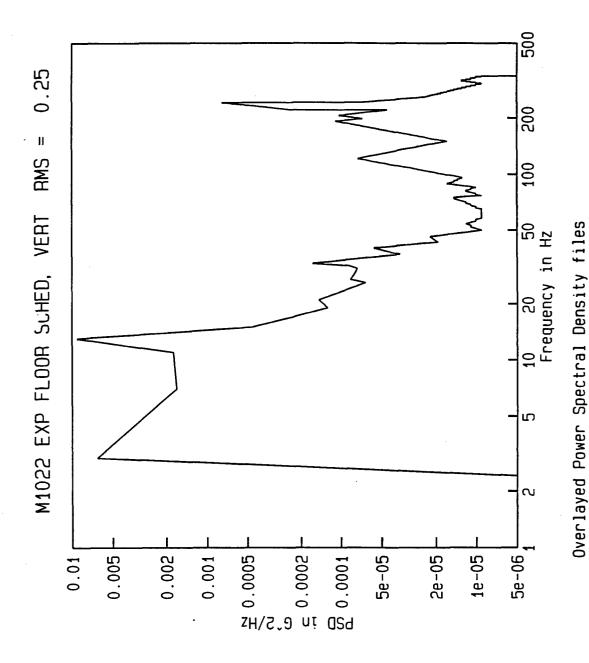
Type III Mobility Study
Figure B-53. Vibration schedule power spectral density function.



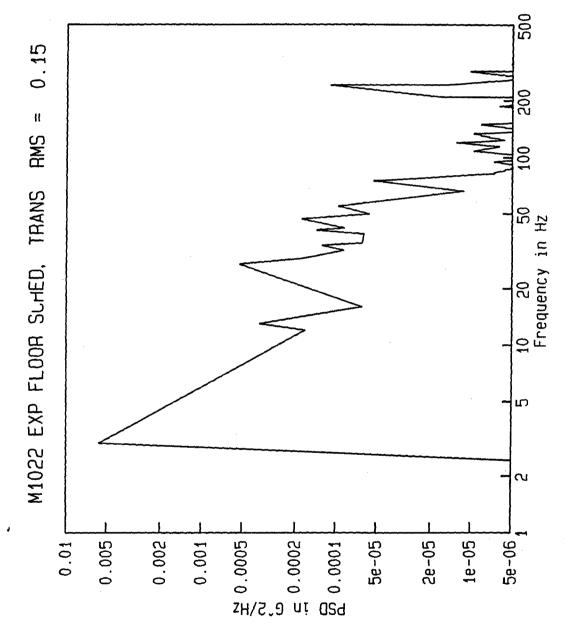
Type III Mobility Study
Figure B-54. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-55. Vibration schedule power spectral density function.

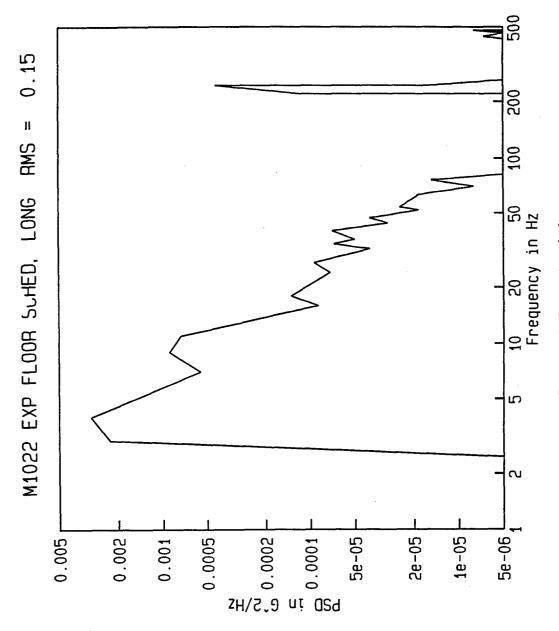


Type III Mobility Study
Figure B-56. Vibration schedule power spectral density function.



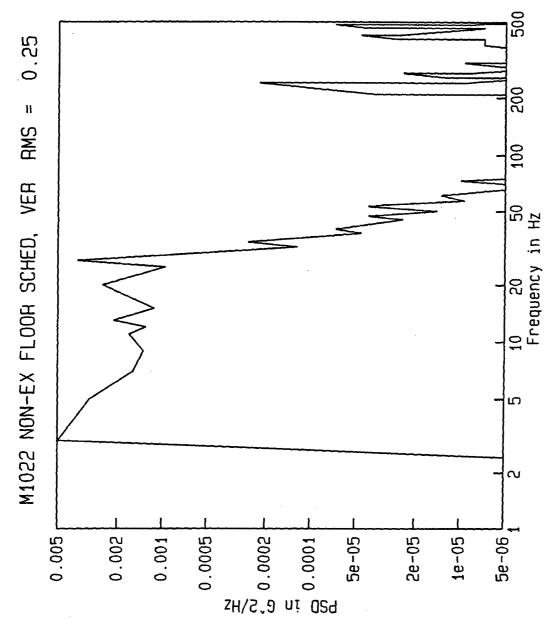
Overlayed Power Spectral Density files Type III Mobility Study

Figure B-57. Vibration schedule power spectral density function.



Overlayed Power Spectral Density files Type III Mobility Study

Figure B-58. Vibration schedule power spectral density function.



Overlayed Power Spectral Density files Type III Mobility Study

Figure B-59. Vibration schedule power spectral density function.

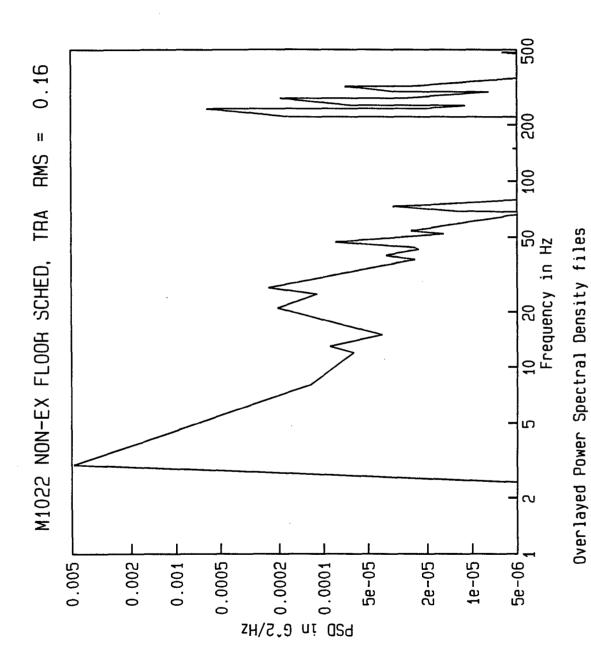


Figure B-60. Vibration schedule power spectral density function.

Type III Mobility Study

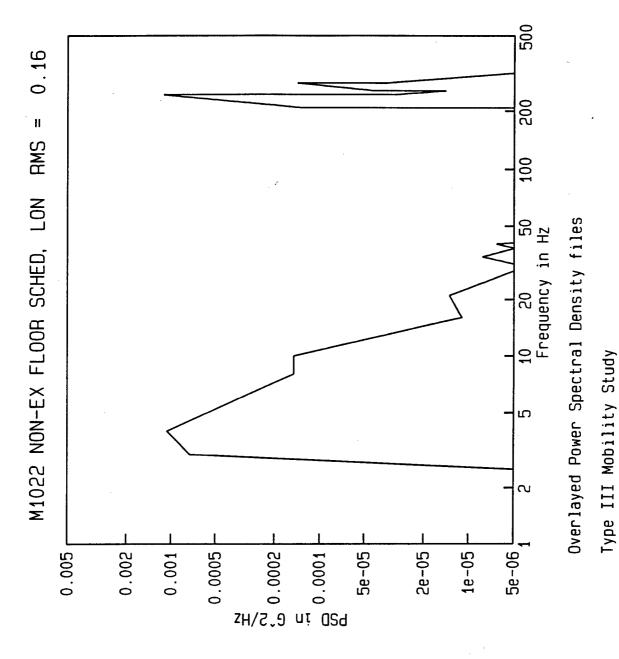
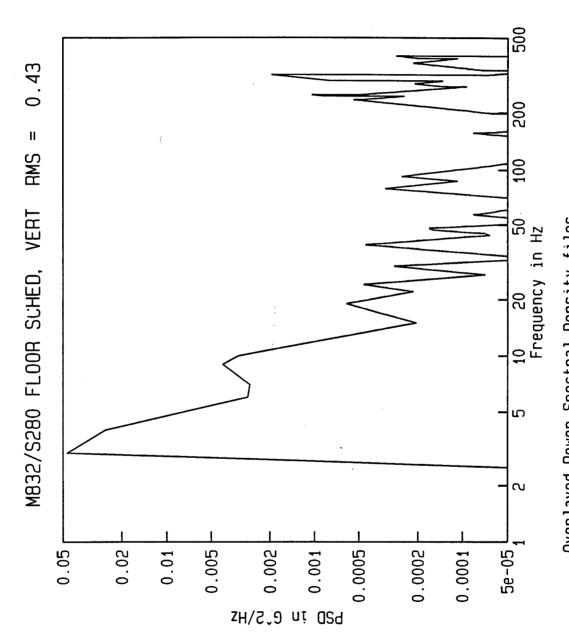
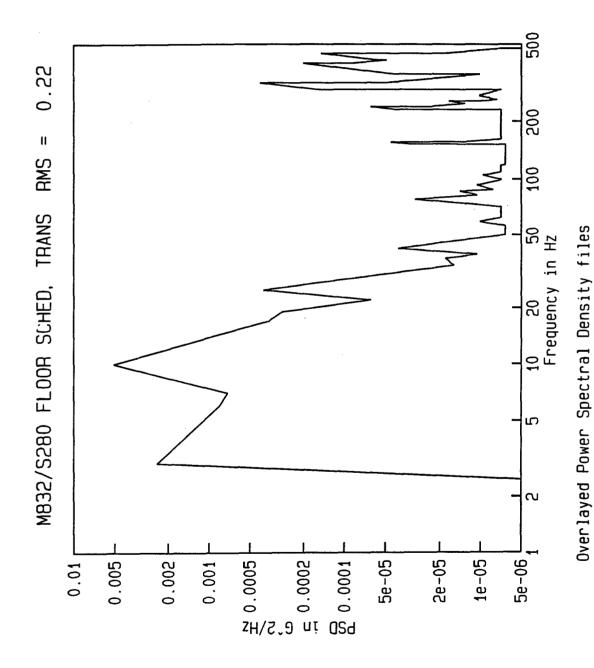


Figure B-61. Vibration schedule power spectral density function.

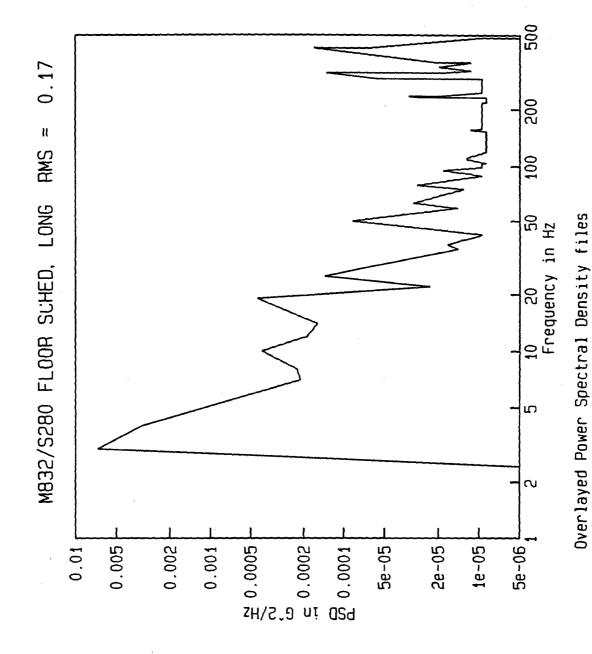


Overlayed Power Spectral Density files Type III Mobility Study

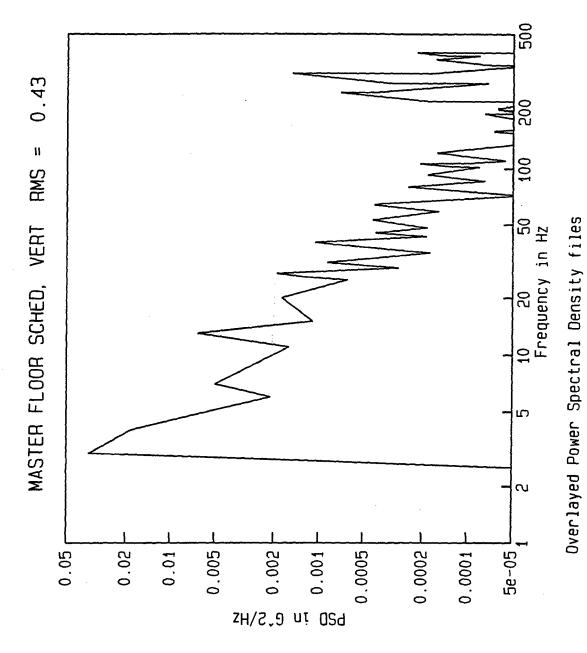
Figure B-62. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-63. Vibration schedule power spectral density function.

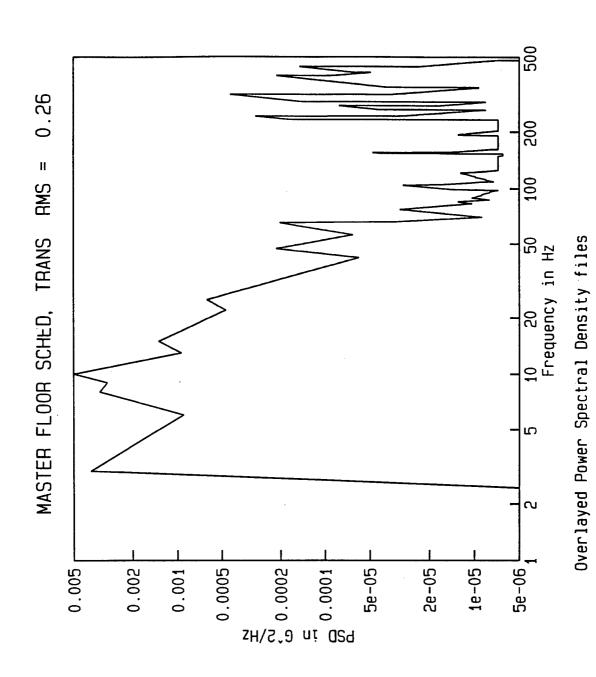


Type III Mobility Study
Figure B-64. Vibration schedule power spectral density function.

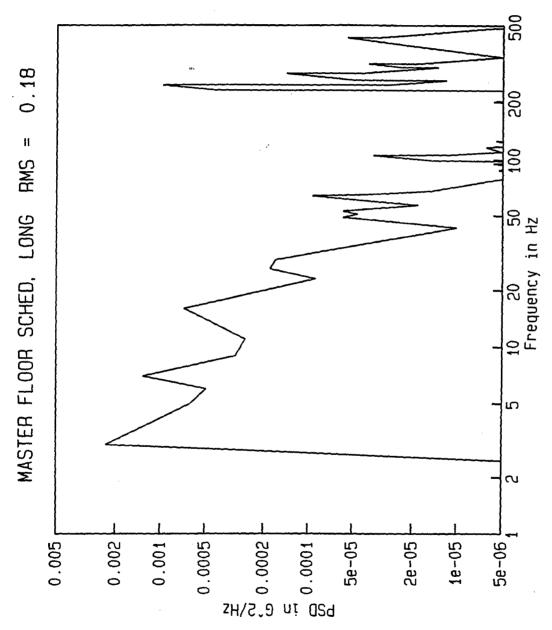


Type III Mobility Study

Figure B-65. Vibration schedule power spectral density function.

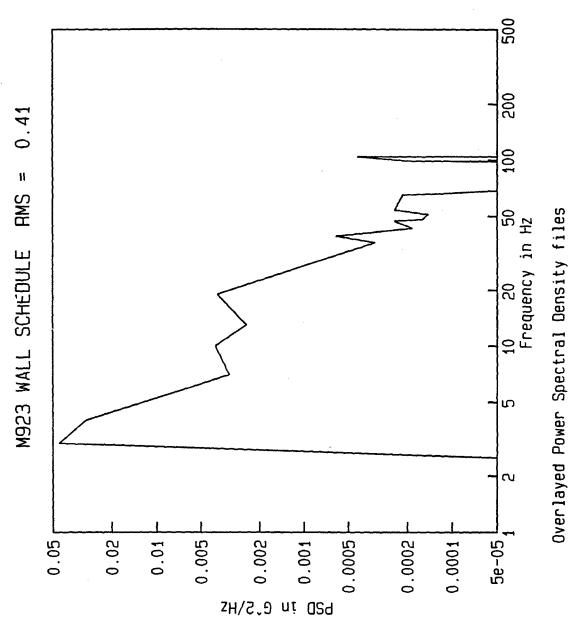


Type III Mobility Study
Figure B-66. Vibration schedule power spectral density function.



Overlayed Power Spectral Density files Type III Mobility Study

Figure B-67. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-68. Vibration schedule power spectral density function.

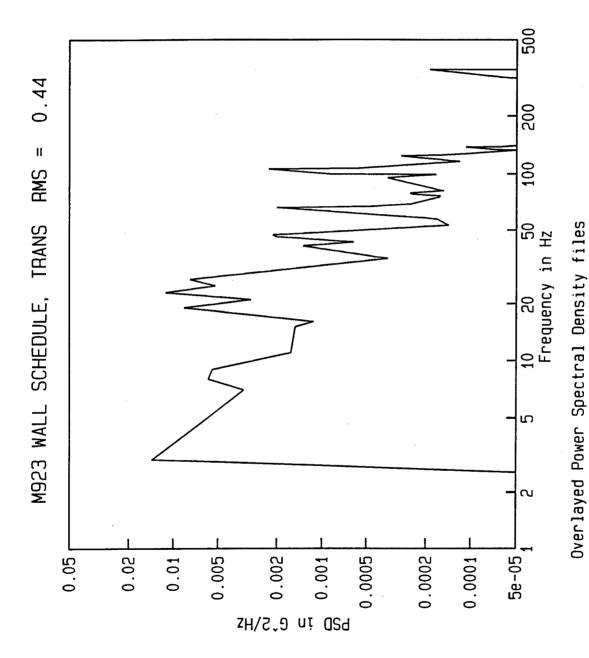
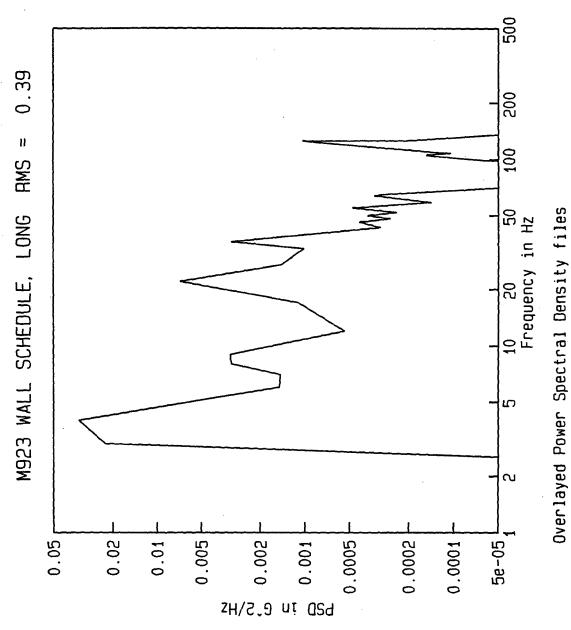
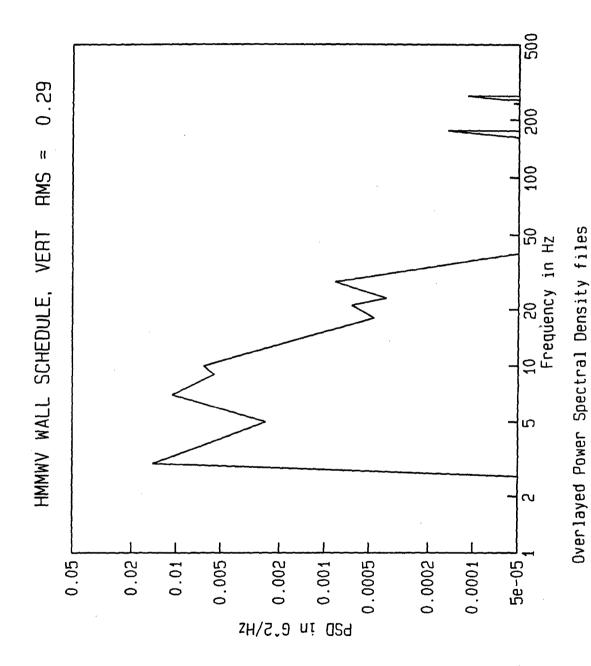


Figure B-69. Vibration schedule power spectral density function.

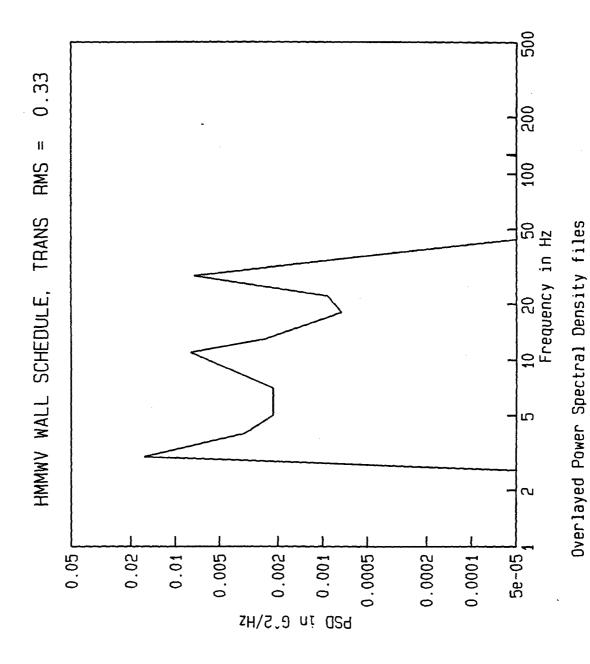
Type III Mobility Study



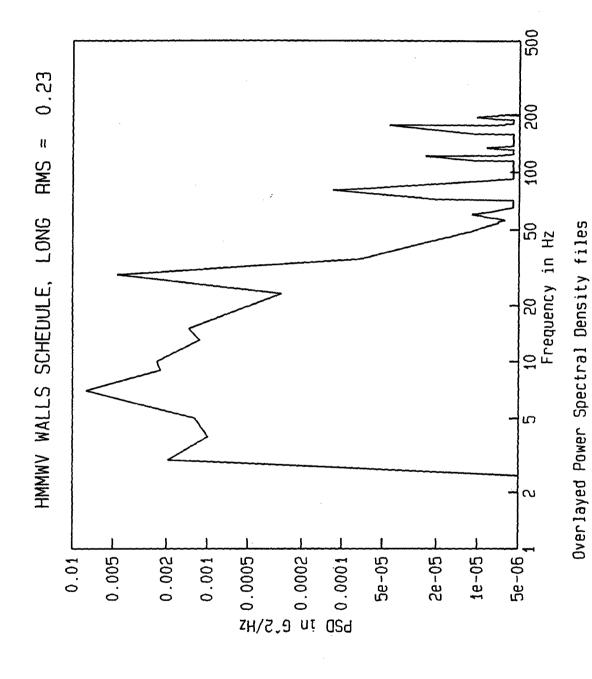
Type III Mobility Study
Figure B-70. Vibration schedule power spectral density function.



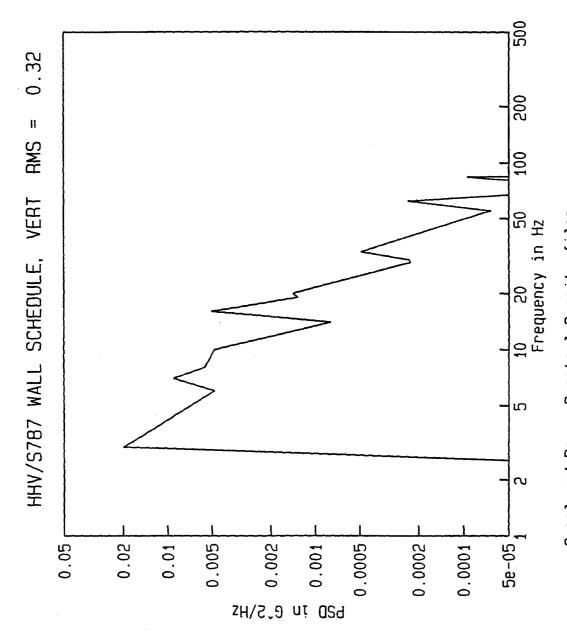
Type III Mobility Study
Figure B-71. Vibration schedule power spectral density function.



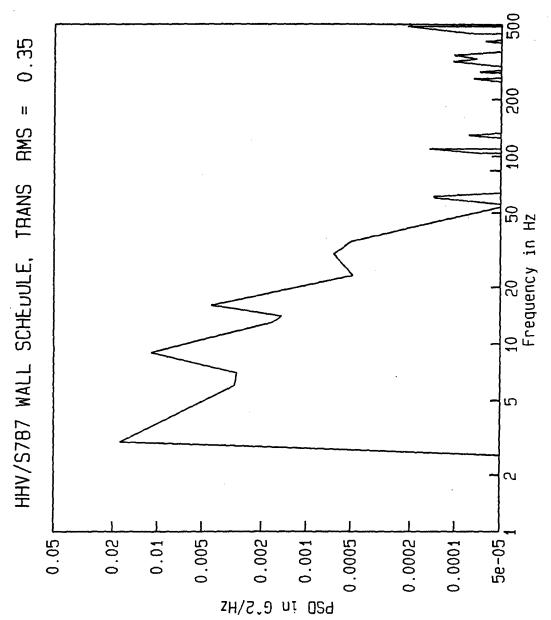
Type III Mobility Study
Figure B-72. Vibration schedule power spectral density function.



Type III Mobility Study Figure B-73. Vibration schedule power spectral density function.



Overlayed Power Spectral Density files
Type III Mobility Study
Figure B-74. Vibration schedule power spectral density function.



Overlayed Power Spectral Density files Type III Mobility Study

Figure B-75. Vibration schedule power spectral density function.

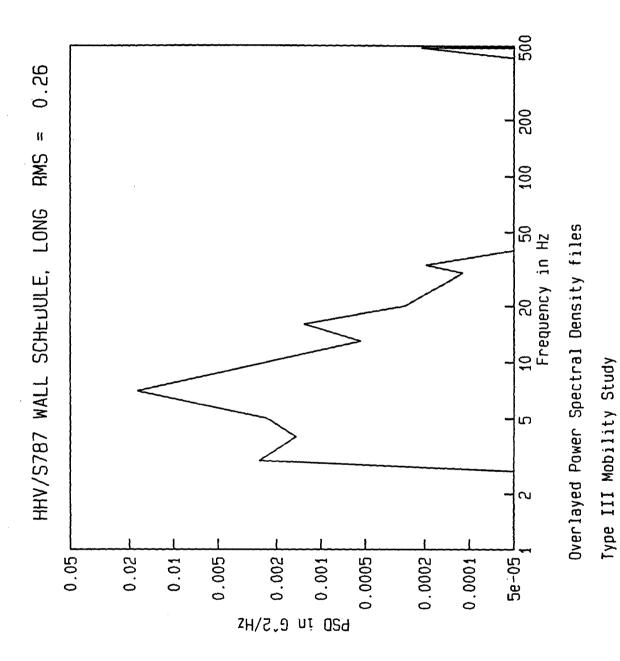
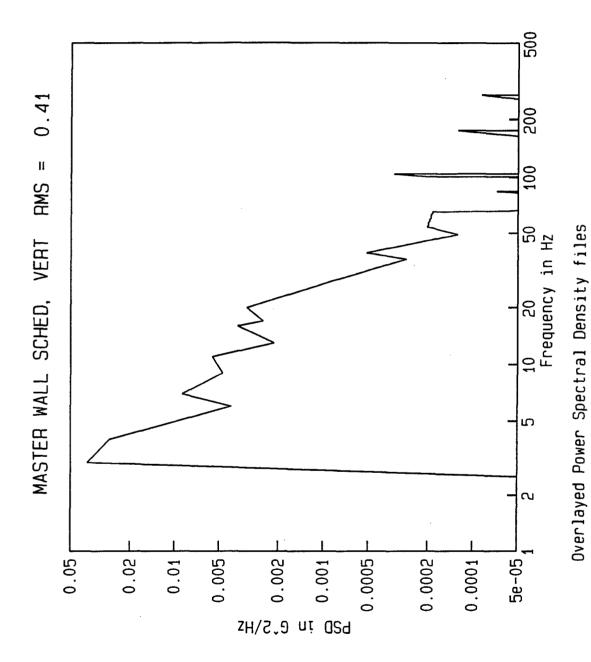
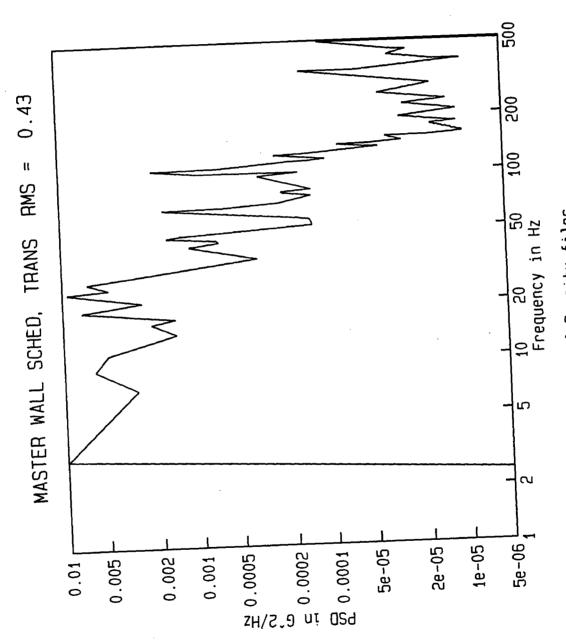


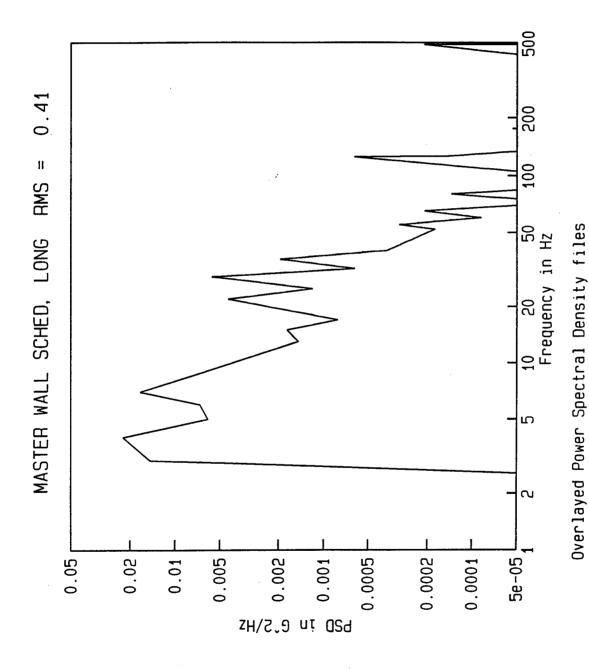
Figure B-76. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-77. Vibration schedule power spectral density function.



Overlayed Power Spectral Density files
Type III Mobility Study
Figure B-78. Vibration schedule power spectral density function.



Type III Mobility Study
Figure B-79. Vibration schedule power spectral density function.

APPENDIX C. PULSE CODE MODULATION DATA ACQUISITION SYSTEM

Each of the transducers was connected to a Metraplex model No. 760 PCM hybrid data acquisition system populated with 760-PC2 programmable channel cards, which provided amplification, offset control, excitation, and 8-pole Butterworth low-pass filtering (roll-off rate 160 dB/decade (48 dB/octave)); transducer signals were filtered at 500 Hz (except the road speed channel, which was filtered at 50 Hz). The cut-off frequency is the nominal frequency at which the transducer response is attenuated by 3 dB. Calibration was provided by an external circuit board designed within ATC. The Metraplex also provided Pulse Code Modulation (PCM) encoding. The incoming signals were multiplexed and sampled at 2083.333 samples per second per channel by a sample-and-hold amplifier, digitized by a 12-bit successive approximation analog-to-digital converter, and converted to non-return to zero-level (NRZ-L) code for transmission. The encoded PCM data were then input to a Emhiser Research model No. EVT 11D2A103-S001 video transmitter with a center frequency of 1777 MHz. The signal conditioner and transmitter were mounted in the cab of the prime mover. A block diagram of the PCM data acquisition system is included in Figure C-1.

The transmitted NRZ-L code was received by a Scientific-Atlanta Series 930 telemetry receiver and passed to a Loral Instrumentation ADS-100 PCM decommutator.

The ADS-100 system consists of several modules. The input buffer and bit synchronizer modules recovered the serial pulse train from data link noise and disturbances. The frame synchronizer and data distributor modules demultiplexed the serial pulse train into 16-bit words. A parallel input module was used to input digital IRIG-B time code into the ADS-100. The compressor and direct memory access (DMA) modules performed data sorting and transfer to the host computer, a Concurrent Computers series 5600 minicomputer. The data were temporarily stored on the system disk and later transferred to magneto-optical disk to provide a permanent storage medium. The ADS-100 system was independent of host control; however, software residing on the minicomputer controlled the hand shaking between the ADS-100 and the minicomputer during the data acquisition. The audio alarm feature of the ADS-100 was used to provide a warning whenever the amplitude of any of the data channels exceeded 95 percent of its full-scale value (plus or minus) or whenever the frame synchronization words varied from the anticipated value.

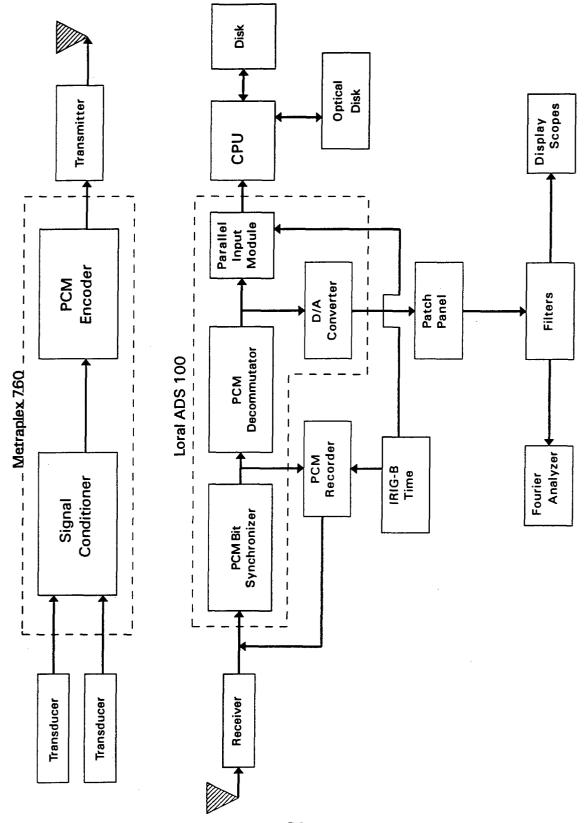


Figure C-1. Block diagram of PCM data acquisition system.

APPENDIX D. DATA VERIFICATION

Data verification was done in two stages: at the test site terminal during the acquisition process and at one of the analysis nodes during the post-test data analysis phase. The test site terminal verification process is designed to run from the computer alone (without a vector accelerator or array processor) and to function as quickly as possible to allow the acquisition process to proceed at a reasonable rate with some assurance that valid data are being collected.

The initial data verification that was performed consisted of searching the individual channels for frame errors and direct current (DC) shifts using the program frmer. A frame error occurs whenever the PCM stream is interrupted, which induces artificial high-level spikes into the data stream. Data approaching full-scale values, in addition to frame errors, are flagged by the frame error check program, because the program defines a frame error as being any data value which is greater than 98 percent of full scale. The same program checks the data for wild points and DC shifts. A wild point is defined as a sudden change in the value of adjacent data points. The magnitude of the change required to trigger a wild point error is operator selectable and was chosen as 150 computer counts for this project. A DC shift occurs whenever the data average changes rather abruptly and then remains constant after the change. The program defines a DC shift as a shift of more than 25 resolution steps from the previous average, with the average being based on approximately 1/6 second. A check is also made for incomplete frames of data (missing channels). These errors are obvious when plotted in the form of a time history, but the quantity of data collected is such that viewing it all as a time history is impossible. For this reason, the frame error check program is utilized, and the locations of all such errors on the system disk are printed out for a permanent record.

As a further step in the data verification process, acceleration amplitude distribution data are compiled by histogramming the data into a 512-bin field and calculating cumulative distributions using the program *amdst*. Table D-1 shows sample acceleration amplitude distribution data. The average value for each channel is removed to account for DC offsets in the instrumentation. The percentile columns represent the percentage of time the data are below (plus) or above (minus) that particular value. For example, 99.9 percent of the time, the data value for channel No. 1 was less than 1.02. The units for the accelerometer amplitude distribution data are gravitational acceleration (g's).

TABLE D-1. SAMPLE AMPLITUDE DISTRIBUTION DATA

Run Number, Test Course, Speed, etc.

Channel									
<u>No.</u>	<u>rms</u>	+Peak	-Peak	<u>+99.9%</u>	<u>-99.9%</u>	<u>+99%</u>	<u>-99%</u>	<u>+90%</u>	<u>-90%</u>
1	0.28	1.25	-1.05	1.02	-0.71	0.68	-0.55	0.37	-0.36
2	0.31	1.32	-1.02	1.08	-0.78	0.71	-0.62	0.39	-0.42
3	0.23	1.34	-0.83	0.96	-0.65	0.66	-0.50	0.29	-0.27
4	0.22	1.22	-0.82	0.94	-0.58	0.62	-0.42	0.26	-0.26
5	0.24	1.04	-1.02	0.85	-0.64	0.59	-0.49	0.33	-0.31
6	0.36	1.50	-1.57	1.19	-0.92	0.81	-0.73	0.46	-0.46
7	0.39	1.66	-1.37	1.30	-0.97	0.86	-0.81	0.50	-0.49
8	0.21	1.27	-0.83	0.95	-0.60	0.64	-0.44	0.24	-0.24

The program which performs the amplitude distribution analysis and creates tables such as the one above performs a number of data validity tests for each channel and provides messages such as:

- a. Channel inactive (rms less than 0.03 g).
- b. Data one-sided (+peak/-peak greater than three or less than one-third).
- c. Data noisy (99.9/90 percent (plus or minus) is greater than 4.82, which is twice the value for normally distributed data).
- d. Large kurtosis predicted (indicative of wild points, predicts kurtosis based on ratio of the actual 99.9-percent value to the expected (Gaussian) value and triggers when the prediction is greater than five).
 - e. Data clipped (peak value (plus or minus) exceeds 95 percent of full-scale value).
 - f. Large rms value (rms greater than 3.5 g's).
 - g. Large DC offset (average value is greater than 10 percent of full scale).
- h. No data spread (lack of resolution, triggered if the 99- and 90-percent value (plus or minus) are equal or if the 99-percent range (+99 -99 percent) covers less than 25 histogram bins).
 - i. Shock present in data (peak (plus or minus) greater than six times the rms value).

Although the amplitude distribution program is not foolproof, and the rules which determine data validity are somewhat arbitrary, the program provides a very useful tool for quick-look verification and analysis.

The post-test verification routines make use of the vector accelerator and are more computationally complex than the previous techniques. The test data are first checked for stationarity or time invariance using the program *statn*. Data are collected and analyzed for short periods of time wherein seasonal differences in performance and long-term vehicle degradation have no influence. Hence, a single time history record should adequately define the distribution of the data. Multiple sample records are used in all steady-state analyses under the assumption that the data are stationary. This provides a broader, more dependable sample population and statistical base for analyses such as acceleration amplitude distributions and acceleration PSDs. The test for stationarity is based on the following assumptions:

- a. The data to be analyzed are not of transient nature (e.g., single mechanical shock).
- b. The sample record taken will reveal the nonstationary character of the random process in question.
 - c. The sample record is very long relative to the lowest frequency component in the data.
- d. Any nonstationarity of significance will be revealed by changes in the rms value of the data with time.

Because the objective is to measure short-term rapidly changing phenomena rather than seasonal differences or vehicle degradation, it is assumed that paragraphs a, b, and c, for this purpose, are true. Two nonparametric statistical tests called a run test and a trend test are used to check paragraph d. The run test consists of computing the rms value for a series of subrecords from the time history (e.g., 30-rms values over 1-second intervals for a 30-second record), finding the median value of the computed rms values, and counting the number of runs (crossings above and below the median value) in the set of rms values. The number of runs is then compared at the 5-percent level of significance to that for theoretical Gaussian distribution, and the hypothesis that the data are stationary is either accepted or rejected.

The trend test uses the same set of rms values and computes the number of reverse arrangements from the following:

A quantity h_{ij} is computed from:

$$h_{ij} = 1 \text{ if } rms_i > rms_j$$

= 0 of $rms_i \leq rms_i$

where i < j and i = 1, 2, ...N-1, j = i+1, i+2, ...N, and N is the number of rms sample values.

The number of reverse arrangements for rms_i is computed from:

$$A_i = \mathbf{SUM} \ h_{ij}$$
$$j=i+1$$

The total number of reverse arrangements for the data set is equal to:

$$ATOT = \mathbf{SUM} A_i$$

$$i=1$$

This value is then compared to an acceptance range based on the desired statistical level of significance, a, and the hypothesis of stationarity is accepted if:

$$A_{N;1-a/2} < ATOT \le A_{N;a/2}$$

where the values of A are determined from the applicable statistical table (resident in the program) as a function of N and a.

The level of significance, a, is chosen from:

$$a = 0.10 \text{ if } N < 20$$

 $a = 0.05 \text{ if } N \ge 20 \text{ and } \le 40$
 $a = 0.02 \text{ if } N > 40$

The trend test is more powerful than the run test for detecting monotonic trends, but is not as powerful for detecting fluctuating trends. Both tests are employed to provide optimum detection of either type of trend. If a set of data fails either or both tests, the data are examined to ensure that the failure has physical significance in addition to the implied statistical significance.

Printouts list the average value, maximum absolute value, and rms value for the data in the same blocks in which the PSDs will be computed so that inconsistent blocks of data can also be deleted from the analyses. The results are also saved in a file for plotting or further analysis. The stationarity results are also useful for determining vehicle speed variation and the location in the data stream when the vehicle left the test course (for short courses).

The statistical moments, or weighted excursions about the mean, are also computed as part of the verification process using the program *skewk*. Only the first four moments are generally of interest and are described below:

$$M_1 = 1/n \text{ SUM[xi]} = x$$

 $M_2 = 1/n \text{ SUM[(xi-x)^2]}$
 $M_3 = 1/n \text{ SUM[(xi-x)^3]}$
 $M_4 = 1/n \text{ SUM[(xi-x)^4]}$

The first two moments are commonly referred to as the mean and variance, while the third and fourth moments are sometimes called the skewness and kurtosis of the distribution. More often, a normalized version of the skewness and kurtosis is computed as shown below:

Skewness =
$$M_3$$

 $(M_2)^{3/2}$
Kurtosis = M_4
 $(M_2)^2$

Since the moments described are central moments or moments about the mean, it would appear to be necessary to first compute the mean of the data set (for each channel), and then subtract this value from each of the data points while computing the moments. The number of disk reads required to first read the data to compute the mean, and then again to subtract the mean from each data point, would make the computations extremely time consuming. By considering the average value to be a constant for the data set examined, a computational technique for each of the moments which avoids computation of the mean prior to other computations was derived and is presented below:

$$\begin{split} M_2 &= 1/n \ [SUM(x_i^2) - (SUM(x_i))^2/n] \\ M_3 &= 1/n \ [SUM(x_i^3) - (3 \ SUM(x_i) \ SUM(x_i^2))/n + 2(SUM(x_i))^3/n^2] \\ M_4 &= 1/n \ [SUM(x_i^4) - (4 \ SUM(x_i) \ SUM(x_i^3))/n + (6(SUM(x_i))^2 \ SUM(x_i^2))/n^2 - 3(SUM(x_i))^4/n^3] \end{split}$$

The computations are performed for each channel, and the channel, description, average, second moment (variance), third moment, fourth moment, standard deviation, skewness coefficient, and kurtosis coefficient are printed on the line printer. The peak value (magnitude with the average removed) and the crest factor (ratio of the peak to the rms value) are also tabulated and printed.

A normal distribution has a skewness of zero (as do all symmetric distributions) and a kurtosis of three. If the kurtosis of the data set is higher than this, it is an indication that there are considerable data out at high amplitude values. Because the kurtosis value is based on the fourth power of the distance from the mean, it is extremely sensitive to wild points, even in small quantities. This value has proven to be an effective screen against abnormal data.

The program *kurst* performed a function similar to that of *skewk*, except that the data set was the output of the program *statn*. The statistical properties of the set of rms and peak values for each data channel were computed and printed to serve as an aid to interpreting the stationarity of the data set.

APPENDIX E. VIBRATION DATA ANALYSIS

Frequency Domain Analysis

The acceleration PSD was computed by dividing the time domain data into successive blocks of data points (in this case, 2048), converting to the frequency domain using the Fast Fourier Transform (FFT), multiplying this result by its complex conjugate, and linearly accumulating (averaging) these results over the entire data run. The number of linear averages applied is dependent upon the amount of valid data available for a particular data run. For a linearly averaged process, the number of statistical degrees-of-freedom is equal to twice the number of averages used. The amount of averaging (degrees-of-freedom) determines the degree of confidence that the value measured is a true representation of the actual physical phenomena. An error band, based on the number of averages, can be computed for various confidence levels from the chi-squared/degrees-of-freedom distribution.

Although the averaging process is unaffected by the data sample rate, the rate has an enormous effect on the resolution and validity of the PSD. The data must be sampled at a rate sufficient to prevent aliasing, yet slowly enough to provide adequate frequency domain resolution. Aliasing is a misrepresentation of the nature of the data due to undersampling (sampling too slowly for the true frequency content of the data) and is corrected by low-pass filtering the data and sampling at some rate above the filter cut-off frequency. The sampling ratio (sampling rate to cut-off frequency) is dependent upon the type of filter used and knowledge of the frequency content of the data (e.g., filtering effect supplied by the transducer). A sampling ratio of 4:1 is adequate for the Butterworth filters used in the ATC signal conditioning packages with a higher value recommended if Bessel filters are used. While increasing the sample rate reduces the aliasing problem, the resolution problem is adversely affected by this action. The following time-frequency equations, based on the mathematics of the Fourier transform, describe the relationship between the sample rate and the frequency domain resolution.

T = BS/SR

 $F_{\text{max}} = SR/2$

delta f = 1/T = SR/BS

where:

T = Time to fill one analysis data block (N points), seconds.

BS = Number of points in data block (2048 for this analysis).

SR = Sample rate, sample per second.

 F_{max} = Maximum frequency which can be represented by the data, Hz.

delta f = Frequency resolution, Hz.

When the FFT algorithm is used, an assumption is made that the time record being transformed (data block) is repeated throughout time. If the time record contains an integer number of cycles within the data block, the assumption is valid and the waveform is said to be periodic within the time record. In most cases, the data are not periodic within the record, which causes a truncation of the signal at the end of the data block. Since the assumption is one of a repeated waveform, the analysis process assumes that the truncation is repeated throughout the entire data record. The effect in the time domain is an apparent discontinuity in the representation of the data signal. In the frequency domain, the discontinuity appears as side lobes or additional frequency components and is known as leakage. A time domain truncation technique known as windowing is employed to reduce the leakage. A Hanning window was employed for this analysis.

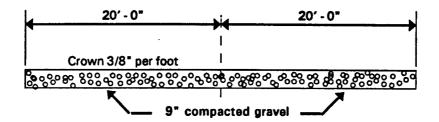
In addition to computing the linear average spectrum over the length of the data run, the program also computes the standard deviation at each spectral line and the peak value at each spectral line over the course of the run. At the conclusion of the process, the standard deviation is added to the average value, and the average, average plus standard deviation, and the peak spectra for each data channel analyzed are saved in a file for further analysis. Only the average spectra were used for this analysis.

The PSDs generated were verified by plotting them in the log-log domain. A further form of verification used the program sigmu to measure the spectral scatter which occurred during the averaging process. This program computes the ratio of the standard deviation to the average value at each spectral line and averages this ratio over the frequency range of interest. The average ratio is printed for each channel, and an overall average ratio (all channels) is also computed and printed. The standard deviation of the average ratios is also computed and printed, indicating the variation among channels. Individual channels which exhibit spectral scatter well beyond the norm can be easily identified and removed from further analysis, if necessary.

APPENDIX F. TEST COURSE DESCRIPTIONS

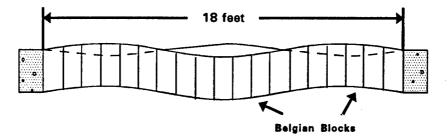
MUNSON TEST AREA

IMPROVED GRAVEL ROAD



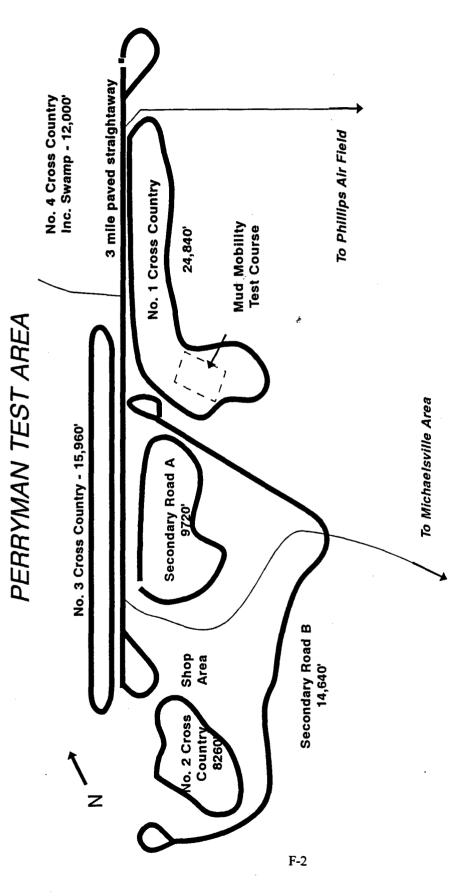
The improved gravel road is a 3.2 km (2 mi) loop with left and right curves. The surface is compacted gravel maintained by grading. The course is often used for endurance testing.

BELGIAN BLOCK COURSE



This course is a cobblestone road which provides an irregular and bumpy surface. The individual cobblestones average approximately five inches in width. The course irregularities, which not only vary along the length (3940 feet) of the course but also across its width, have crests of about three inches. The crests are such that a vehicle travelling over them is subjected to both pitching and rolling motions.

Figure F-1. Sketches of two of the Munson courses.



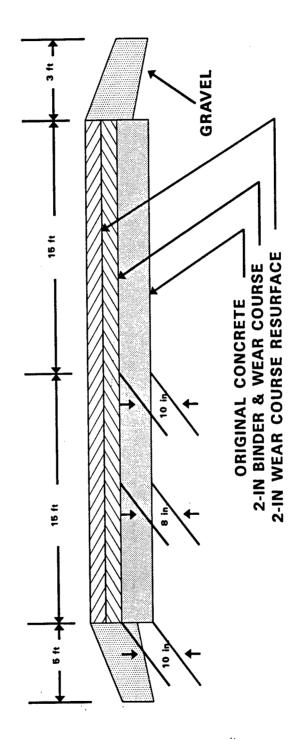
Straightaway - Bituminous Concrete **Cross-Country**

Quarry Spall

No. 1 (Moderate) Native Soil - Dirt, Mud, Dust No. 2 (Moderately Rough) Native Soil - Dirt, Mud, Dust No. 3 (Rough) Native Soil - Dirt, Mud, Dust No. 4 (Severe) Native Loam - Dirt, Mud, Dust, Natural Marsh Secondary Roads Crushed Stone, Natural Soil

Figure F-2. Sketch showing test courses at the Perryman Test Area (PTA).

PERRYMAN THREE-MILE PAVED STRAIGHTAWAY



The paved straightaway is essentially a level road, three miles in length, with banked turn-around loops at each end. The course is used where high speed as well as tests requiring long periods of uninterrupted operation are desired.

Figure F-3. Test course cross section,

APPENDIX G. REFERENCES

- 1. Memorandum, AMSTE-TA-S, 8 August 1994, subject: Test Execution Directive: Type III Mobility Vibration Profile, Various Tactical Shelters for the U.S. Air Force (USAF), Electronic Systems Center, TECOM Project No. 1-CO-210-000-029.
- 2. MIL-M-8090F, Mobility, Towed Aerospace Ground Equipment, General Requirements For, 1 February 1974.
- 3. MIL-STD-810E, Environmental Test Methods and Engineering Guidelines, 14 July 1989.
- 4. ITOP 1-2-601, Laboratory Vibration Schedules, 1 March 1988.
- 5. NATO STANAG 4370, Environmental Testing, 30 August 1996.

APPENDIX H. ABBREVIATIONS

APG = Aberdeen Proving Ground

ATC = U.S. Army Aberdeen Test Center

CG = center of gravity

COV = coefficient of variation

CTIS = Central Tire Inflation System

CUCV = Commercial Utility Cargo Vehicle CUCV = Commercial Utility Cargo Vehicle

DC = direct current

DMA = direct memory access FFT = Fast Fourier Transform HHV = HMMWV Heavy Variant

HMMWV = High-Mobility Multipurpose Wheeled Vehicle

ISO = International Standards Organization ITOP = International Test Operating Procedure

MTA = Munson Test Area

NATO = North Atlantic Treaty Organization

NRZ-L = non-return to zero-level
NSN = National Stock Number
PCM = pulse code modulation
PSD = power spectral density
PTA = Perryman Test Area
rms = root mean square

SN = serial number

STANAG = Standardization Agreement

TECOM = U.S. Army Test and Evaluation Command

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